

The Fine Tool Shop Catalogue



Mike Egley
7-9

A statement by the owner of The Fine Tool Shop, Inc.

Don't you wish that someone had given you your new car a 500-mile road test before you drove it from the dealer's showroom? Should it really be the buyer's burden to uncover the problems?

Here are some of the procedures our factories follow before their products are released for distribution: Makita, the power tool builder, factory tests every tool for 30 minutes under load; Tyzack, the handsaw manufacturer, employs saw stewards whose sole task is to examine, one by one, each Non Pareil saw before it leaves the factory; Acorn and Two Cherry tools, all of which are hand-made, undergo final individual inspection by critical experts. All of this is in addition to constant quality control procedures carried out during manufacturing.

We conduct substantial business with these and other factories because we share the same goal: Customer Satisfaction.

Of course, we are offering only the upper levels of quality. We haven't the taste or temperament to handle most mass-produced products that never feel the warmth of human attention, until it is time for packaging, and sometimes not even then.

This catalogue is for very special people, people whose experience has taught them that, in the long run, the best tool is also the cheapest. As a bonus, there is the considerable satisfaction of using and enjoying the finest.

The factories who supply us are mostly small, mostly old and mostly European. They are small because the demand for true quality has always been small, because too few craftsmen, who have been taught the art and technique of making tools by hand, are available, and finally, because that's the way the owners want it.

Doubtless some machinery has been developed to put a rein on certain products costs. Even so, these tools, although excellent value, are not cheap.

In the tools we sell, what you see is only part of what you get. When you hold an Acorn carving tool in your hand, you are holding the result of hundreds of years of tool making experience; as you fondle an Emmerich plane, a product of a factory of 30 skilled craftsmen, you really can believe that you are holding the finest wood plane made anywhere. Decades to centuries of experience, highly selective materials, attention to detail, and much more that does not meet the eye is what we are really selling.

So much, for now, about the producers. Let's talk about us, you and me, the buyer, the seller. I have been in the hand tool manufacturing business for more than 25 years. I know that my experience will serve both of us well in this venture. Equally important, ever since I was a lad, I have been a mail order buyer. I know how you must feel when, after sending off your money to a strange company, in pleasant anticipation of receiving your purchase, you discover that the wait for delivery seems to be interminable. Sometimes, when the goods finally arrive, you discover they were not as described, or that there is a back-order and another unreasonable delay.

My past frustrations with similar experiences will benefit you immeasurably.

1. All the merchandise illustrated in the catalogs we publish is actually in stock when we go to press.

2. Our goal is to ship your order complete within 3 working days after its receipt.

3. In the unlikely event that we do not have some of the merchandise you ordered, we will notify you immediately by phone or mail. We will tell you when we expect the next shipment and abide by your instructions. Never will we charge your credit card account for back-ordered items. Moreover, cash refunds will be made within 2 working days after shipment.

4. If you don't like what you received because it is not what you thought you were buying, if, in fact, it doesn't live up to your expectations, send it back within 30 days, even if you used it. You will receive a complete refund including round trip postage.

This is a very broad guarantee of satisfaction and applies to everything we sell except power tools. These must be in some way defective (a most unlikely situation!). A manufacturer's warranty is included with these power tools. It is, in the case of Makita, most generous.

Selling high quality tools is a most rewarding business life. There is very little hassle and one makes friends readily. I also sleep well at night.

Thanks for your business.

Mortimer V. Schwartz

Acknowledgements

The works of several authors have been extremely helpful in preparing the text for this catalog. I particularly wish to acknowledge Michael Dunbar's *Antique Woodworking Tools*, published by Hastings House; R.A. Salaman's *Dictionary of Tools*, published by Scribner; Albert Jackson and David Day's *Tools and How to Use Them*, published by Michael Joseph.

October, 1979

M. V. Schwartz

We do have an extraordinary retail shop in Westport, Connecticut. If you are ever in that area, please pay us a visit. You will find it rewarding.

The Fine Tool Shop
Carriage Hill
1200 East Post Road
Westport, CT 06880
Tel: (203) 227-8887

Table of Contents

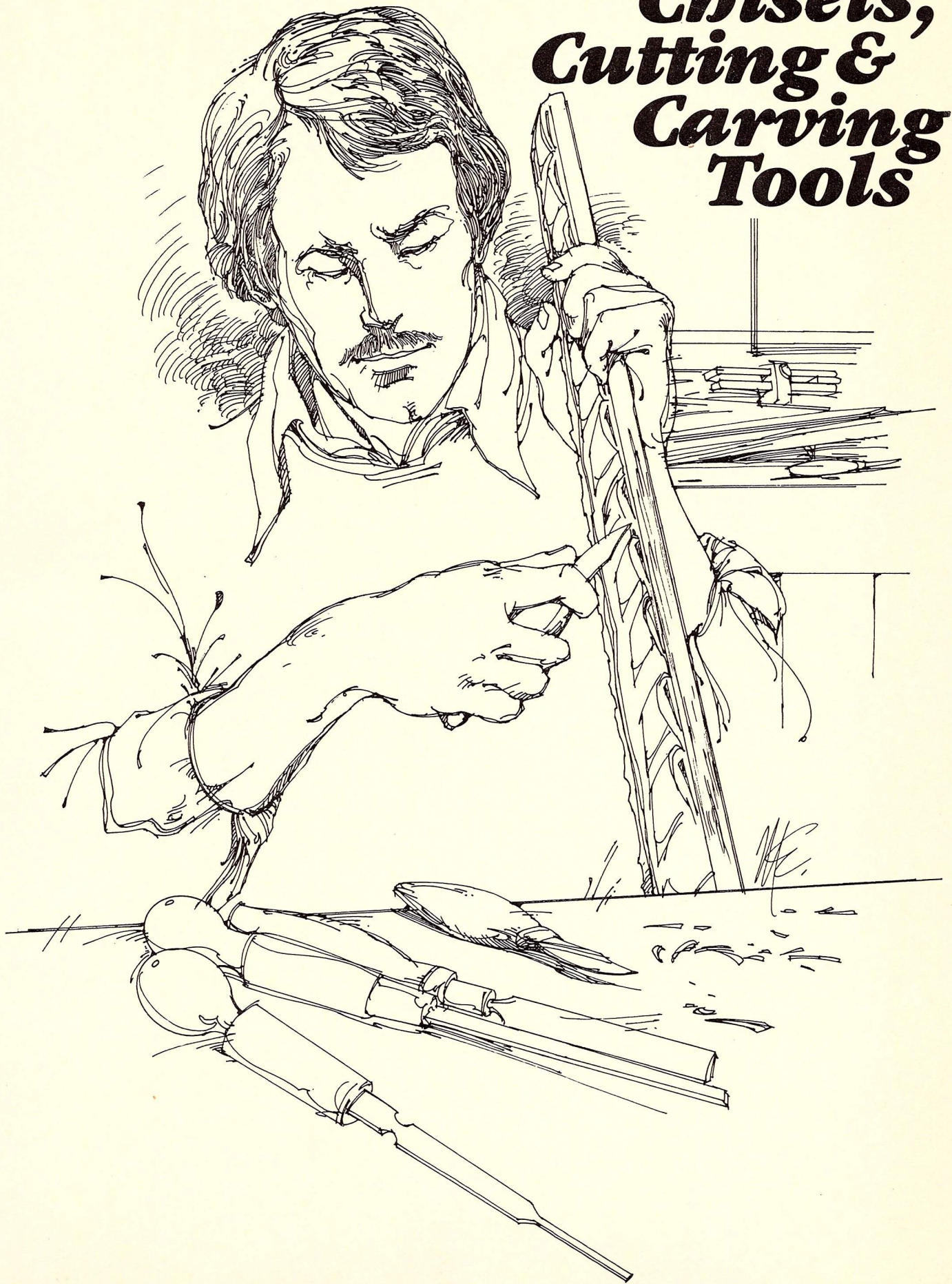
Pages

Chisels, Cutting & Carving Tools ..	3-20
Chisels	5-6
Knives	8
Gouges & Carving Tools	7, 9-13
Drawknives	14
Turning Tools	15-16
Rifflers & Rasps	17-20
Sharpening	21-26
Multistone	22
Bench Stones	23
Slip Stones	24
Honing Guides	25
Strop	26
Hand Planes	27-62
Primus Planes	29
Traditional Wood Planes	30
Metal Body Planes	31-32
Combination Planes	33
Power Planes	34
Small Planes & Shaves	35
Scrapers & Veneering Tools	36
Hand Saws	37-44
Back Saws	38-39, 41

Panel Saws	39, 42
Fret, Piercing & Veneer Saws	40
Flooring, Pad & Dovetail Saws	41
Lion Trimmer	42
Mitre Boxes	43
Sheet, Pruning & Stairbuilders Saws	44
Measuring & Marking Tools	45-52
Precision Squares	46
Marking Gauges	47
Squares & Straight Edges	48, 50, 52
Trammels & Calipers	49
Boxwood Rules	50
Level, Straight Edges	51
Tapes & Marking Tools	52
Power Tools	53-62
Power Miter Saw	54
Small Tools	55
Power Planer/Joiner	56-57
Jig Saw, Circular Saw, Blower	58
Routers	59
Portable Planer & Sanders	60
Electric Drills	61
Foredom Miniature Tools	62

Clamping Devices	63-70
Clamps	64-66, 69, 70
Vises	67-69
Drilling Tools	71-76
Auger Bits & Brace	72-73
Woodbits	74
Countersink/Counterbore system ...	75
Large Drills	76
Workshop Accessories	77-93
Tool Chests	78-79
Screwdrivers	80-81
Miniature Tools	82
Drill Accessories	83
Safety Equipment	84
Flexible Shaft System	85
Dowelling	86-87
Hammers, Mallets	88-89
Pocket Knives	90-91
Magnifiers, Minitorches	92
Pliers	93
Books	94-95
Carved Birds	96

Chisels, Cutting & Carving Tools



Chisels and Gouges

Although we offer for sale various brands of quality carving tools and carpenters chisels and gouges, there are two companies whose products are so extraordinary in quality that they bear special mention. They are peers and they do have peers—but very, very few.

The English company with the Acorn brand is Henry Taylor (Tools) Limited of Sheffield. Officially, the company started production in 1834. Unofficially, its roots as edge tool makers go back to the 17th century. Today, Taylor have limited their production to carving tools, of which they claim over 4000 different tools are available. This is extraordinary, and perhaps even unnecessary. Be assured that 90 percent or more of these 4000 tools are not available "off the shelf". Nevertheless, what are produced and are available represent the best hand forged carving tools made in the world today.

The German counterpart, owners of the Two Cherries brand, started life in 1858. The company name is Wilh. Schmitt & Company of Remscheid, but mostly they are known by their Two Cherries trademark. Their production is confined to carpenters chisels and gouges, turning tools, plane irons, and carving tools. Their hand forged edge tools are nothing less than magnificent. The finish, the handles, and the care that goes into their manufacture are all self-evident. The quality is known only to the users, of which there must be contented millions.

Whether you select Acorn or Two Cherries, be assured you have purchased absolutely the finest tools made for the purpose. With either brand, you will own lifetime tools.

Woodworking Chisels

Woodworking chisels have been around since the Neolithic age, the age that brought us polished stone implements, pottery making, the art of grinding tools of stone, horn and bone, the use of the bow and arrow, domestication of animals and the invention of the wheel, among other accomplishments. In the succeeding Bronze Age in Europe, about 3500 BC, both tanged and socketed type chisels were cast in stone moulds. Much later, in medieval times, carpenters used a former, a chisel with a splayed blade for rough shaping. Time passed and today's forms began to develop. General purpose chisels were made with stout parallel blades. These too were called 'former' chisels because they could be used with a mallet. Longer, thinner models, called 'paring' chisels, were for more delicate work and were not intended to be struck. The mortise chisel, with its thick, stout blade and heavy handle was designed to take heavy blows. So much for the three basic types. There were, of course, special purpose chisels used by carvers, turners, millwrights, wheelers, and other tradesman. Some of these you will find illustrated in the following pages. But first let us clarify our terminology on the basics.

Firmer Chisels

The general term for the ordinary chisel. The blade is parallel, the cutting edge is square. It is normally forged with a long tang and fitted into a wooden or plastic handle. The blade length is usually 4". Its width can vary from 1/16" to 3", although sizes over 2" are not too common. The blade is strong enough to be driven with a mallet.

Bevelled Edge Firmer Chisels

Because material is removed from the blade

when bevelling the top face of the two long sides, enough rigidity is lost to make this type of chisel suitable for lighter woodworking. Thanks to the bevelling, this tool can be used for undercutting dovetails and will also provide better clearance when working in corners.

Paring Chisels

Provided with a long (7" to 10") thin blade in widths from 1/8" to 2" (though one hardly ever sees a size over 1-1/2"). It can be either the bevelled edge or the plain style. It is used to trim long grooves and for finishing cuts without the assistance of a mallet.

Mortise Chisels

This is the generic term for a variety of chisels used for mortising. All have an extra strong blade, thicker back-to-front than other chisels, and a stout handle to withstand mallet blows. Frequently, mortise chisels are supplied with a socket end rather than a tang end blade. Tanged blades, when struck heavily and repeatedly, are liable to split the handle. The tapered socket, forged as one with the blade, overcomes this difficulty. This more expensive method of manufacture will definitely provide longer life to the handle, particularly when the handle is fitted with a hoop at the top to inhibit 'mushrooming'. The main varieties of mortising chisels include the following:

Joiners Mortise Chisels

For general and heavy mortising. The thick, stiff blade, from 1/4" to 1" wide, is useful for clearing out waste.

Sash Mortise Chisels

Used by joiners and cabinet makers for light mortising. The 8" to 9" long blade, in widths from 1/8" to 1/2", has a turning pattern handle with a single ferrule and a leather shock absorbing washer between the ferrule and the bolster, a usual feature of mortising chisels.

Registered Mortise Chisels

The special features of this firmer chisel entitled it to special registration somewhere around 1870. Among these features are a longer than ordinary iron ferrule next to the bolster. This ferrule had a square opening for the chisel tang. Also, a leather washer was provided between the ferrule and the bolster to absorb the shock of the blow.

The other end of the handle was bound in an iron hoop to prevent splitting and 'mushrooming'. Such chisels had blade widths from 1/8" to 2" and were up to 15" long. They were favored initially by barge builders which is why they were also known as Shipwrights' Chisels.

Lock Mortise Chisels

Designed specially for cutting deep recesses in doors and drawers for mortise locks. The long square blade, 3/8" to 5/8", curves upward at the cutting end. On the Common or York patterns, the square section of the blade is bent in a flat S-curve. The more popular Swan Neck pattern has a long blade curving downwards with a sharp knee on the lower edge. In both patterns the thickened knee acts as a fulcrum to lever out waste. This tool always has a socket end.

Socket Framing Chisels

This is an American contribution. It is actually a long, strong, firmer chisel. The handle is socketed and hooped. Blade widths run from 1/4" to 2". The back of the blade is round or canted to handle big cutting jobs, like cutting joints in beams and other heavy carpentry.

Gouge terminology closely follows what we have above written about chisels. However, with gouges there are two main kinds of

blades: out-cannel, with the grinding bevel on the outside, used to hollow-out areas like finger holds, or pulls, or to make saucer-like depressions; in-cannel, with the grinding bevel on the inside, used to make a curved cut in a straight line, such as scribing a moulding or the shoulder of a tenon to meet a mortise in a round leg.

It is worth noting that paring gouges are available, like their chisel counterparts, with cranked or trowel shanks. The cranked variety, is bent at two right angles, whereas the trowel shank has a graceful curve. In either case, the intention is to keep the hand clear of the work. No mallets, please.

Carving Tools

The range of carving tool patterns and sizes available would astonish any novice. There are literally thousands. However, the average professional manages with only 70 to 80 tools for most purposes. Of these, two or three dozen will be in constant use. The others are kept for when required.

The tools vary in three important particulars, as we have illustrated on the diagram on page 11. 1. *Length shape: straight, curved or bent in length.* 2. *Section across the tool: whether curved (gouge), flat (chisel), or "V" shaped (parting).* 3. *Size: the width across the tool.*

In addition, there are other variations, such as the spade, long spade and whether the tool is shouldered or not.

In a very general way we will briefly discuss the basic shapes so that you can better understand how your needs can be fulfilled.

Chisels, bevelled on both sides, are either skew or square. Whichever, they will be initially ground with rounded heels. This permits the user to employ a rocking motion. Chisels are used for setting in, for reaching acute corners and for cleaning up recessed backgrounds.

Gouges are the maid-of-all-work in carving tools, particularly the straight variety which is used for all general carving. The size of the sweep you select will vary with the amount of work you want the tool to do. For initially cleaning out a large area you would probably select a #8 or #9 sweep in the 25 mm to 35 mm size. A small sweep would be used to clean out the hollows left by the larger tool.

Parting Tools, sometimes called "V" tools because of their cutting shape, are used chiefly for outlining, lettering, finishing inside corners and cutting grooves.

Veiners are "U" shaped and are a boon for fluting and lettering.

Bent gouges The *front bent* variety is more commonly used. It is required for cutting hollows in rounded shapes, or for removing large amounts of wood when carving bowls. *Back bent* gouges are rather specialized. They are needed when top clearance is restricted.

Spoon Gouges These do work that straight or curved gouges can't handle. Their special shape lets them enter areas regular gouges can't go.

Fishtail Gouges, sometimes referred to as spade gouges, are chiefly finishing tools. They are great for cleaning out corners without damaging adjacent edges.

To get good results, your tools must be sharp and must be sharpened properly. We supply sharpening instructions with each of our kits. It is worthwhile noting here that carving tools are

Paring Chisels

sharpened on both sides of the cutting edge. Carving gouges, for example, have the main bevel on the outside, but a second bevel is formed on the inside. This second bevel tends to lift the gouge when it is cutting with the hollow side facing down. Otherwise, there would be a tendency for the gouge to run into the wood. The inside bevel also widens the clearance of the tool so that it can make a deep cut more readily.

In all carving the wood must always be cut, not scraped, split or levered away. The surface the cuts leave must be so left; i.e., not sanded. The tool marks and facets left by the edge tools give flow and feeling to the work.

A 19th century practice assigned numbers to the section across the tool and the length shape. Data processing and other specific needs of different manufacturers have caused these trade accepted numbers to bear prefixes of varying length. Nevertheless, the old system prevails in the last two digits. By this system, all tools of a certain number have the same degree of curvature in relation to their width. Thus a #9 gouge is a half round curve, whatever its width. Or, conversely and more expansively, all tools of the same length shape, having the same corresponding section, have the same number. Therefore, a #9 is a straight gouge of semi-circular section whatever its width. A #18 is a curved gouge with a semi-circular section. A diagram illustrating the possibilities appears herein. We use this system in numbering our tools.

Wood Carving Sets

Most manufacturers select pretty much the same carving tools for their sets, although they do have different ideas on the appropriate widths. With respect to the size of the carving sets, the British are considerably more conservative than the Germans. Henry Taylor, for example, considers that a three piece set can, to some extent at least, satisfy a beginning carver. We do offer that set (to satisfy the board of directors at Henry Taylor), but we believe that the limitations that three tools can impose on the novice will be most frustrating. The six piece sets offered by Taylor and Marples are considerably more satisfying. And, the twelve piece sets more or less put your mind at ease when beginning your second or third project. Wihl. Schmitt, the Two Cherries brand, start their sets with twelve pieces and progress to thirty-two.

Paring Chisels

Used for final trimming and fitting. Blades are about 10" long. Available in five widths.

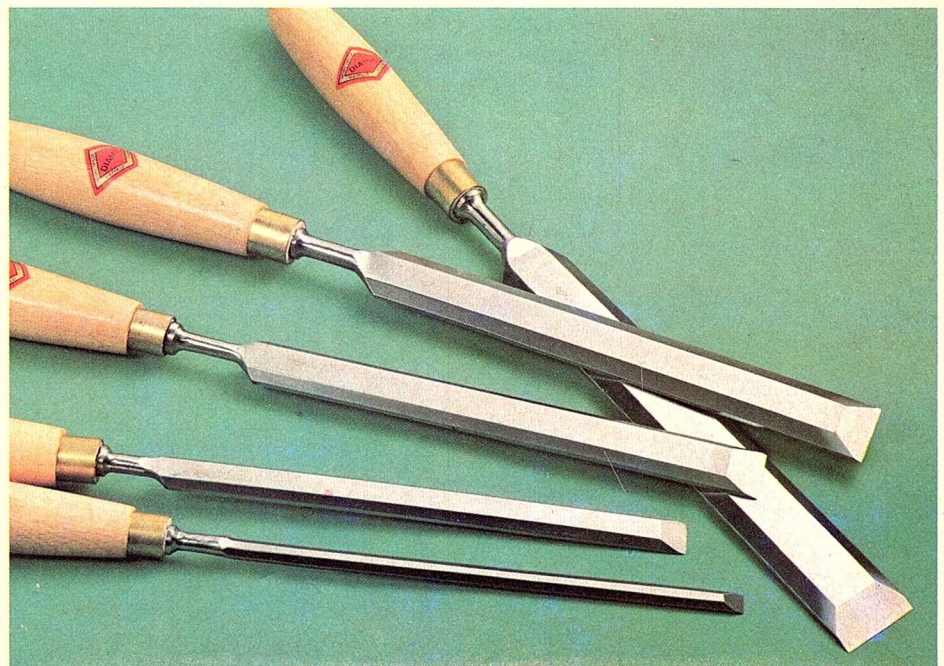
104-2870	1/4"
104-2880	1/2"
104-2890	3/4"
104-2900	1"
104-2910	1-1/4"



Offset Handled Paring Chisels

These chisels are designed to be used where the handle of a straight paring chisel would restrict hand movement. The offset handle permits the blade to lay flat on the work at all times — and prevents skinned knuckles too.

104-2820	1/4"
104-2830	1/2"
104-2840	3/4"
104-2850	1"
104-2860	1-1/4"



Chisels



A Bevelled Edge Cabinet Chisels

Made by Wilh. Schmitt & Company and bearing their Two Cherries trademark, these chisels are sought by demanding craftsmen throughout Europe. The highly polished blade needs only light honing before use. Available individually or as a set of six.

104-3240	6mm
104-3250	10mm
104-3260	12mm
104-3270	16mm
104-3280	20mm
104-3290	26mm
104-4660	Set of all six

Socket Chisels

Designed for the heaviest work, the handle of these chisels nestle in a socket formed in the end of the blade. Two types are available: Bevelled Edged with leather tipped handles; and Framing Chisels made for cutting really large joints as in barn construction. The Framing Chisels come equipped with steel hooped handles.

B Socket Framing Chisels

104-1560	1/4"
104-1570	1/2"
104-1580	3/4"
104-1590	1"
104-1600	1-1/2"
104-1610	2"

C Bevelled Edge Socket Chisels

104-1490	1/4"
104-1500	1/2"
104-1510	3/4"
104-1520	1"
104-1530	1-1/4"
104-1540	1-1/2"
104-1550	2"

D Registered Chisels

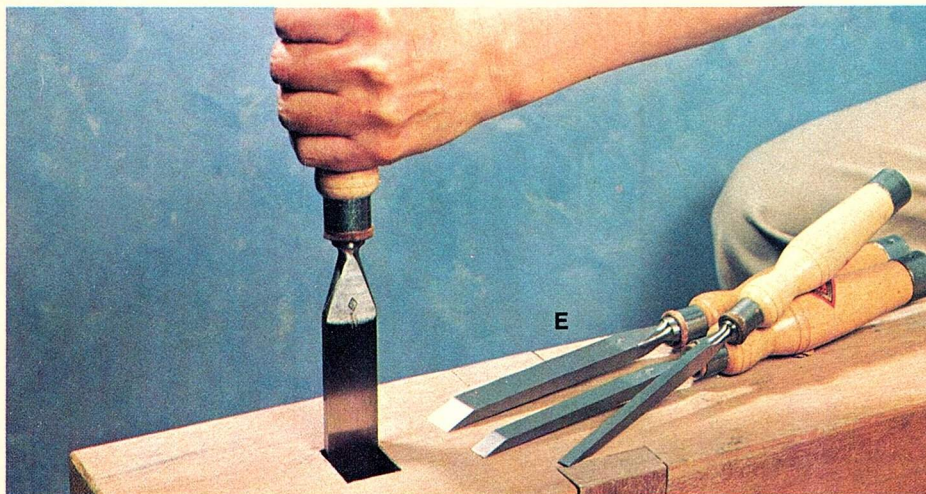
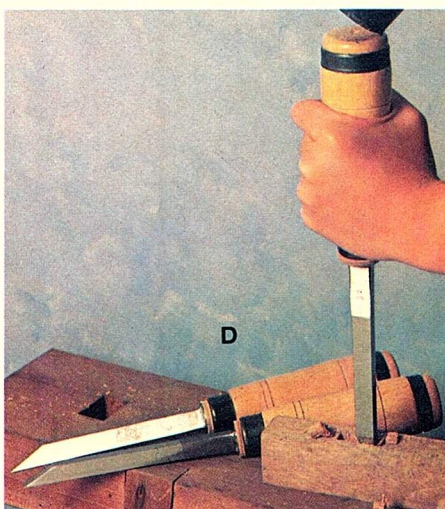
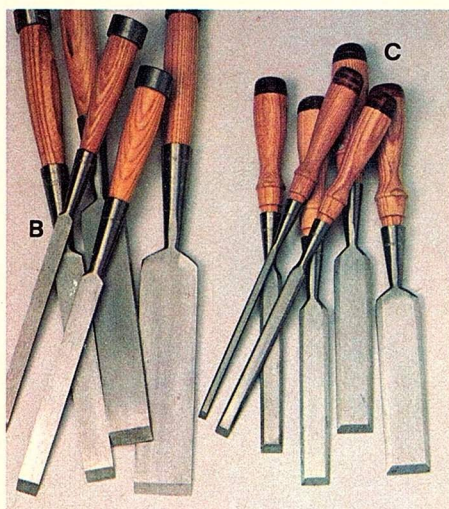
The stout blades, leather washer and steel reinforced handles make these ideal for heavy cabinetmaking.

104-2920	1/4"
104-2930	1/2"
104-2940	3/4"
104-2950	1"
104-6230	Set of four

E Mortise Chisels

Extra heavy duty chisels bound top and bottom with steel hoops. A leather shock washer absorbs the shock of the blow to prevent recoil. We offer four sizes.

104-6040	3mm
104-3120	6mm
104-3130	10mm
104-3140	13mm



Carving Sets

Block Cutter Sets

Two small sets of hand carving tools designed for cutting linoleum or wood-blocks.

- 104-5940 Rosewood Block Set**
Includes: 3/8" Straight Chisel, 5/16" Bent Chisel, 1/4" Skew Chisel, 5/16" Straight Shallow Gouge, 1/8" Straight Bent Gouge, 1/8" Bent Deep Gouge

- 104-1110 Beech Block Set Includes:**
1/2" Straight Chisel, 3/8" Skew Chisel, 3/4" Shallow Gouge, 1/4" "U" Cut, 1/4" "V" Cut



Large Sculpture Set

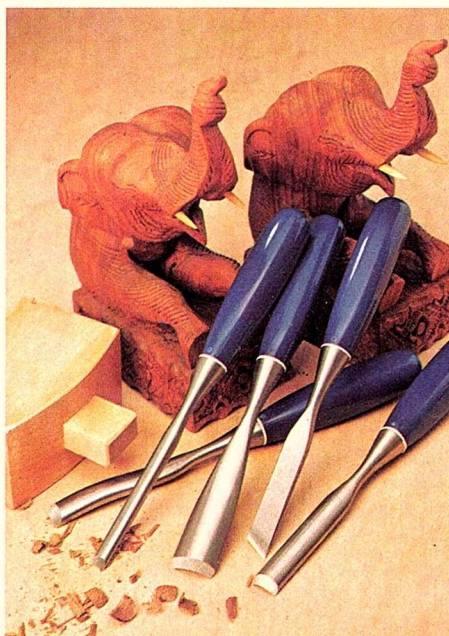
For carvers that like to tackle large projects, this set is excellent. Blades are made of Sheffield steel, tempered to hold a really sharp edge. The handles, made of extra high impact polycarbonate plastic, transmit the full force of the blow to the cutting edge. Overall length: 10" (bottom left).

- 104-2040 Large Sculpture Set**
Includes: 1" Fan Tail Gouge, 3/8" Straight Gouge, 5/8" Straight Gouge, 5/8" Bent Gouge, 5/8" Skew Chisel

Turned Handle Carving Set

The turned hardwood handles of these six medium sized carving tools fit comfortably in your palm. The result is easier control — so necessary to the novice wood carver. Overall length: 8" (bottom right).

- 104-2360 Turned Handle Carving Set**
Includes: 1/4" Skew Chisel, 1/2" Bent Gouge, 3/8" Straight Gouge, 1/8" Spoon Bit Chisel, 1/2" Straight Gouge, 5/16" V Parting Tool



Knives & Carving Sets



Woodcarvers have favored "Stay Sharp" Murphy Knives since 1850. There must be a reason.

They are just about the best. Each knife is made from uniformly hardened and tempered high carbon cutlery steel and precision ground.

Whittling Knife

ground from 17 gauge chrome vanadium steel, has a straight cutting edge. Recommended for carving soft wood, plaster or plastic.

A 106-0430 1-1/2" blade length

Sloyd Knives

are generally ground from 15 gauge chrome vanadium steel. Handles are oval shaped hardwood; ferrules are closed.

Blade Length

B	104-0580	1-3/4"
	104-0590	2-5/8"
	104-0600	3"
	104-6030	3-1/4"

Hand Carving Knife

slight looking but actually quite strong, has a slim, shaped handle for greater balance when carving delicate pieces. Blade is 17 gauge.

C 106-0400 1-3/8" blade length

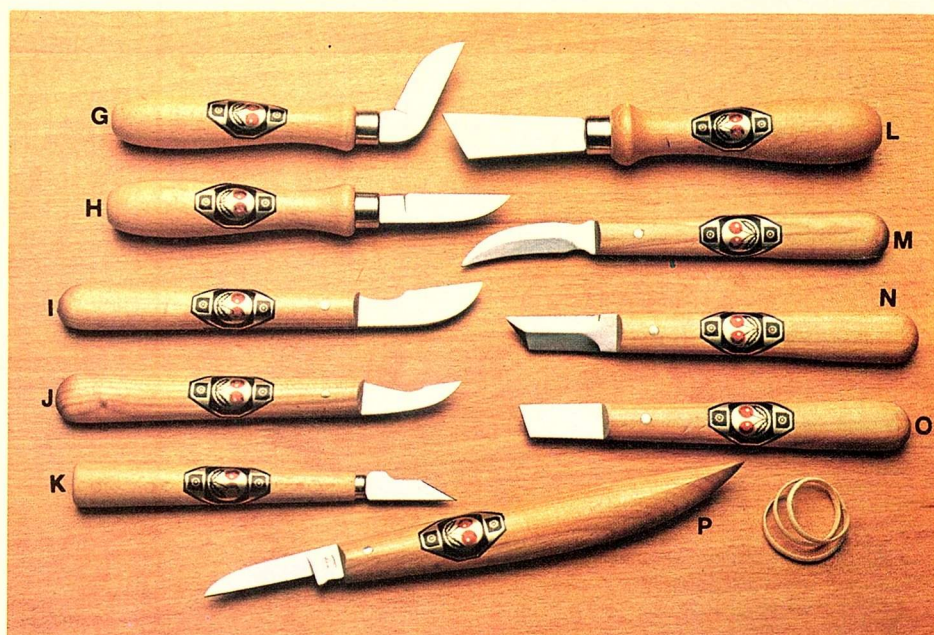
Shop Knives

of 11 gauge steel are very stout and rugged. The tang extends right through the pinned oak handle and protrudes for prying or scoring. The blade is tapered end and ground to a straight cutting edge.

D 106-0390 2-1/8" blade length

E 106-0040 2" blade length

Another model, slimmer with a pakka-wood handle.



Adjustable Brass Handle Knife

represent the top of the line. The handles are made from solid brass castings with rosewood inserts. They are then hand sanded, polished and buffed to a high luster. The chrome vanadium steel adjustable blades are ground, polished, and honed to a fine edge. A slotted set screw holds them in place. A beautiful tool.

F 106-0410 4-1/8" length of handle; 6" blade

Extra Blades

106-0420 6" X 1/2", 17 gauge

106-0890 8" X 1/2", 17 gauge

Chip Carving Knives

Ideal for whittling away the hours. Available individually or as a set of ten.

104-6150 Set of ten

G	104-6050	L	104-6100
H	104-6060	M	104-6110
I	104-6070	N	104-6120
J	104-6080	O	104-6130
K	104-6090	P	104-6140

Light Carving Sets

By combining chip carving knives and short carving tools Wilh. Schmitt Company has created an unbeatable combination.



Perfect for all those occasions when full size carving tools are just too big. We offer three sets.

104-6190 Four Piece Set in vinyl pouch
Includes: Chip Knife, 8mm Straight Chisel, 8mm #8 Gouge, 6mm Parting Tool

104-6180 Seven Piece Set in vinyl pouch
Includes: Chip Knives, 8mm Straight Gouge, 6mm #8 Gouge, 6mm Parting Tool, Sharpening Stone

104-6170 Eleven Piece set in Wooden Box
Includes: 8mm Straight Chisel, 12mm Skew Chisel, 6mm & 8mm #8 Gouges, 2mm Veiner, 6mm Parting Tool, Sharpening Stone

Firmer Gouges

Bent Firmer Gouges

Useful in scooping deep depressions. The bezel is ground on the outside of the gouge.

104-3210	10mm
104-3220	16mm
104-3230	20mm



Socket Firmer Gouges

The extra heavy construction of these gouges make them particularly suitable for rough work. Their handles are leather tipped hickory to last a good long time.

104-0230	1/4"
104-0240	3/8"
104-0250	1/2"
104-0260	3/4"
104-0270	1"
104-0280	1-1/2"



Two Cherries Firmer Gouges

The same discerning craftsman that chose Two Cherries chisels would likely wish to repeat his satisfaction by equipping his tool chest with firmer gouges of the same brand. Far be it from us to withhold that satisfaction from you. We offer six sizes.

104-3150	6mm
104-3160	10mm
104-3160	12mm
104-3170	16mm
104-3180	20mm
104-3190	26mm



Individual Carving Tools

The Acorn Line Professional Carving Tools by Henry Taylor Tools Ltd.

104-4670	1/8" Straight Chisel	104-4920	1/2" #5 Gouge	104-5240	1" #5 Bent Gouge	104-5560	1/2" #5 Back Bent Gouge
104-4680	3/16" Straight Chisel	104-4930	5/8" #5 Gouge	104-5250	1/4" #7 Bent Gouge	104-5570	1/2" #5 Back Bent Gouge
104-4690	1/4" Straight Chisel	104-4940	3/4" #5 Gouge	104-5260	1/2" #7 Bent Gouge	104-5580	1/8" #39 Parting Tool
104-4700	3/8" Straight Chisel	104-4950	1" #5 Gouge	104-5270	3/4" #7 Bent Gouge	104-5590	1/4" #39 Parting Tool
104-4710	1/2" Straight Chisel	104-4960	1/8" #7 Gouge	104-5280	1" #7 Bent Gouge	104-5600	3/8" #39 Parting Tool
104-4720	5/8" Straight Chisel	104-4970	3/16" #7 Gouge	104-5290	1/4" #10 Bent Gouge	104-5610	1/8" #41 Parting Tool
104-4730	3/4" Straight Chisel	104-4980	1/4" #7 Gouge	104-5300	1/2" #10 Bent Gouge	104-5620	1/4" #41 Parting Tool
104-4740	1" Straight Chisel	104-4990	3/8" #7 Gouge	104-5310	3/4" #10 Bent Gouge	104-5630	3/8" #41 Parting Tool
104-4750	1/8" Skew Chisel	104-5000	1/2" #7 Gouge	104-5320	1" #10 Bent Gouge	104-5640	1/8" #43 Parting Tool
104-4760	1/4" Skew Chisel	104-5010	5/8" #7 Gouge	104-5330	1/4" Bent Chisel	104-5650	1/4" #43 Parting Tool
104-4770	3/8" Skew Chisel	104-5020	3/4" #7 Gouge	104-5340	3/8" Bent Chisel	104-5660	3/8" #43 Parting Tool
104-4780	1/2" Skew Chisel	104-5030	1" #7 Gouge	104-5350	1/2" Bent Chisel	104-5670	1/8" #45 Parting Tool
104-4790	5/8" Skew Chisel	104-5040	3/32" #9 Gouge	104-5360	1/4" #5 Spoon Gouge	104-5680	1/4" #45 Parting Tool
104-4800	3/4" Skew Chisel	104-5050	3/16" #9 Gouge	104-5370	3/8" #5 Spoon Gouge	104-5690	3/8" #45 Parting Tool
104-4810	1/8" #3 Gouge	104-5060	1/4" #9 Gouge	104-5380	1/2" #5 Spoon Gouge	104-5700	1/16" Veiner
104-4820	1/4" #3 Gouge	104-5070	3/8" #9 Gouge	104-5390	3/4" #5 Spoon Gouge	104-5710	1/8" Veiner
104-4830	3/8" #3 Gouge	104-5080	1/2" #9 Gouge	104-5400	1/4" #7 Spoon Gouge	104-5720	3/8" Fishtail Chisel
104-4840	1/2" #3 Gouge	104-5090	5/8" #9 Gouge	104-5410	3/8" #7 Spoon Gouge	104-5730	1/2" Fishtail Chisel
104-4850	5/8" #3 Gouge	104-5100	3/4" #9 Gouge	104-5420	1/2" #7 Spoon Gouge	104-5740	3/4" Fishtail Chisel
104-4860	3/4" #3 Gouge	104-5110	1" #9 Gouge	104-5430	3/4" #7 Spoon Gouge	104-5750	3/8" #3 Fishtail Chisel
104-4870	1" #3 Gouge	104-5120	1/16" #11 Gouge	104-5440	1/4" #9 Spoon Gouge	104-5760	1/2" #3 Fishtail Chisel
104-4880	1/8" #5 Gouge	104-5130	3/32" #11 Gouge	104-5450	3/8" #9 Spoon Gouge	104-5770	3/4" #3 Fishtail Chisel
104-4890	3/16" #5 Gouge	104-5140	3/16" #11 Gouge	104-5460	1/2" #9 Spoon Gouge	104-5780	3/8" #7 Fishtail Chisel
104-4900	1/4" #5 Gouge	104-5150	1/4" #11 Gouge	104-5470	3/4" #9 Spoon Gouge	104-5790	1/2" #7 Fishtail Chisel
104-4910	3/8" #5 Gouge	104-5160	3/8" #11 Gouge	104-5480	1/4" #10 Spoon Gouge	104-5800	3/4" #7 Fishtail Chisel
		104-5170	1/2" #11 Gouge	104-5490	3/8" #10 Spoon Gouge	104-5810	3/8" #10 Fishtail Chisel
		104-5180	5/8" #11 Gouge	104-5500	1/2" #10 Spoon Gouge	104-5820	1/2" #10 Fishtail Chisel
		104-5190	3/4" #11 Gouge	104-5510	3/4" #10 Spoon Gouge	104-5830	3/4" #10 Fishtail Chisel
		104-5200	1" #11 Gouge	104-5520	1/4" #12 Spoon Gouge	104-5840	1-1/2" #3 Large Fishtail Chisel
		104-5210	1/4" #5 Bent Gouge	104-5530	3/8" #12 Spoon Gouge	104-5850	1-1/2" #5 Large Fishtail Chisel
		104-5220	1/2" #5 Bent Gouge	104-5540	1/2" #12 Spoon Gouge	104-5860	1-1/2" #7 Large Fishtail Chisel
		104-5230	3/4" #5 Bent Gouge	104-5550	3/4" #12 Spoon Gouge		

The Two Cherries Line Professional Carving Tools by Wilh. Schmitt Company

104-3380	6 mm Straight Chisel	104-3670	20 mm #11 Gouge	104-4030	6 mm "V" Parting Chisel #39
104-3390	10 mm Straight Chisel	104-3680	6 mm #5 Bent Gouge	104-4040	8 mm "V" Parting Chisel #39
104-3400	12 mm Straight Chisel	104-3690	10 mm #5 Bent Gouge	104-4050	10 mm "V" Parting Chisel #39
104-3410	16 mm Straight Chisel	104-3700	14 mm #5 Bent Gouge	104-4060	12 mm "V" Parting Chisel #39
104-3420	20 mm Straight Chisel	104-3710	18 mm #5 Bent Gouge	104-4070	14 mm "V" Parting Chisel #39
104-3430	6 mm Skew Chisel	104-3720	2 mm #11 Bent Gouge	104-4080	16 mm "V" Parting Chisel #39
104-3440	8 mm Skew Chisel	104-3730	4 mm #11 Bent Gouge	104-4090	18 mm "V" Parting Chisel #39
104-3450	12 mm Skew Chisel	104-3740	6 mm #11 Bent Gouge	104-4100	20 mm "V" Parting Chisel #39
104-3460	14 mm Skew Chisel	104-3750	8 mm #11 Bent Gouge	104-4110	4 mm Bent Parting Tool #40
104-3470	20 mm Skew Chisel	104-3760	10 mm #11 Bent Gouge	104-4120	6 mm Bent Parting Tool #40
104-3480	4 mm #5 Gouge	104-3770	12 mm #11 Bent Gouge	104-4130	8 mm Bent Parting Tool #40
104-3490	6 mm #5 Gouge	104-3780	16 mm #11 Bent Gouge	104-4140	10 mm Bent Parting Tool #40
104-3500	10 mm #5 Gouge	104-3790	20 mm #11 Bent Gouge	104-4150	2 mm "V" Parting Tool #41
104-3510	14 mm #5 Gouge	104-3800	4 mm Spoon Chisel	104-4160	4 mm "V" Parting Tool #41
104-3520	16 mm #5 Gouge	104-3810	6 mm Spoon Chisel	104-4170	6 mm "V" Parting Tool #41
104-3530	20 mm #5 Gouge	104-3820	8 mm Spoon Chisel	104-4180	8 mm "V" Parting Tool #41
104-3540	25 mm #5 Gouge	104-3830	10 mm Spoon Chisel	104-4190	10 mm "V" Parting Tool #41
104-3550	4 mm #9 Gouge	104-3840	12 mm Spoon Chisel	104-4200	12 mm "V" Parting Tool #41
104-3560	6 mm #9 Gouge	104-3850	16 mm Spoon Chisel	104-4210	14 mm "V" Parting Tool #41
104-3570	8 mm #9 Gouge	104-3860	20 mm Spoon Chisel	104-4220	16 mm "V" Parting Tool #41
104-3580	10 mm #9 Gouge	104-3870	8 mm #4 Spoon Gouge	104-4230	20 mm "V" Parting Tool #41
104-3590	12 mm #9 Gouge	104-3880	10 mm #4 Spoon Gouge	104-4240	25 mm "V" Parting Tool #41
104-3600	16 mm #9 Gouge	104-3890	12 mm #4 Spoon Gouge	104-4250	4 mm Back Bent Parting Tool #43
104-3610	20 mm #9 Gouge	104-3900	16 mm #4 Spoon Gouge	104-4260	6 mm Back Bent Parting Tool #43
104-3620	2 mm #11 Gouge	104-3910	20 mm #4 Spoon Gouge	104-4270	8 mm Back Bent Parting Tool #43
104-3630	4 mm #11 Gouge	104-3920	8 mm #9 Spoon Gouge	104-4280	10 mm Back Bent Parting Tool #43
104-3640	6 mm #11 Gouge	104-3930	10 mm #9 Spoon Gouge	104-4290	12 mm Back Bent Parting Tool #43
104-3650	10 mm #11 Gouge	104-3940	12 mm #9 Spoon Gouge	104-4300	14 mm Back Bent Parting Tool #43
104-3660	14 mm #11 Gouge	104-3950	14 mm #9 Spoon Gouge	104-4310	4 mm "V" Parting Tool #45
		104-3960	20 mm #9 Spoon Gouge	104-4320	6 mm "V" Parting Tool #45
		104-3970	4 mm #5 Front Bent Gouge	104-4330	8 mm "V" Parting Tool #45
		104-3980	8 mm #5 Front Bent Gouge	104-4340	10 mm "V" Parting Tool #45
		104-3990	12 mm #5 Front Bent Gouge	104-4350	12 mm "V" Parting Tool #45
		104-4000	14 mm #5 Front Bent Gouge	104-4360	16 mm "V" Parting Tool #45
		104-4010	2 mm "V" Parting Chisel #39	104-4370	20 mm "V" Parting Tool #45
		104-4020	4 mm "V" Parting Chisel #39	104-4380	1 mm Grooving Gouge

Short Carving Tools— Blades Fully polished

104-4420	8 mm Short Straight Chisel	104-4460	6 mm Short #6 Gouge	104-4560	6 mm Short #10 Spoon Gouge
104-4430	12 mm Short Straight Chisel	104-4470	10 mm Short #6 Gouge	104-4570	8 mm Short #10 Spoon Gouge
104-4440	4 mm Short Skew Chisel	104-4480	6 mm Short #8 Gouge	104-4580	4 mm Short "V" Parting Tool
104-4450	10 mm Short Skew Chisel	104-4490	8 mm Short #8 Gouge	104-4590	6 mm Short "V" Parting Tool
		104-4500	6 mm Short #10 Gouge	104-4600	4 mm Short Bent Parting Tool
		104-4510	8 mm Short #10 Gouge	104-4610	6 mm Short Bent Parting Tool
		104-4520	6 mm Short #10 Bent Gouge	104-4620	4 mm Short Spoon Parting Tool
		104-4530	8 mm Short #10 Bent Gouge	104-4630	6 mm Short Spoon Parting Tool
		104-4540	6 mm Short Bent Chisel	104-4640	2 mm Short Grooving Gouge
		104-4550	8 mm Short Bent Chisel	104-4650	6 mm Short Grooving Gouge

Carving Tools: Profiles and Sections

		STRAIGHT		CURVED		FRONT BENT		BACK BENT (up to 3/4 in.)		6mm. (1/4 in.)		8mm. (5/16 in.)		9mm. (3/8 in.)		11mm. (7/16 in.)		13mm. (1/2 in.)		16mm. (5/8 in.)		19mm. (3/4 in.)		22mm. (7/8 in.)		25mm. (1 in.)	
		1	2	3	12	24	33																				
				4	13	25	34																				
				5	14	26	35																				
				6	15	27	36																				
				7	16	28	37																				
				8	17	29	38																				
				9	18	30																					
		10	31																								
		11	32																								
				39	40	43																					
				41	42	44																					
				45	46																						

Two Cherries Carving Sets



Individual Carving Tools by Wilh. Schmitt Company. These tools are listed on page 10. Typical sections and profiles are illustrated on page 11.

Woodcarving Sets by Wilh. Schmitt Company

These sets are packed in wooden cases. Included are four Arkansas slip stones and a lignum vitae mallet.

104-6200 Set of 12 Tools

Includes:

Straight Chisels 6mm, 8mm
Skew Chisel 8mm
#5 Gouge 4, 6, 10mm
#8 Gouge 4, 8, 12mm
#10 Gouge 4, 6mm
Parting Tool 6mm

104-6210 Set of 18 Tools

Includes:

Straight Chisels 4, 6, 12, 20mm
#4 Gouge 4, 6, 10, 16mm
#6 Gouge 3, 4, 6, 8, 12, 16mm
#11 Gouge 2, 4, 6mm
Parting Tool 6mm

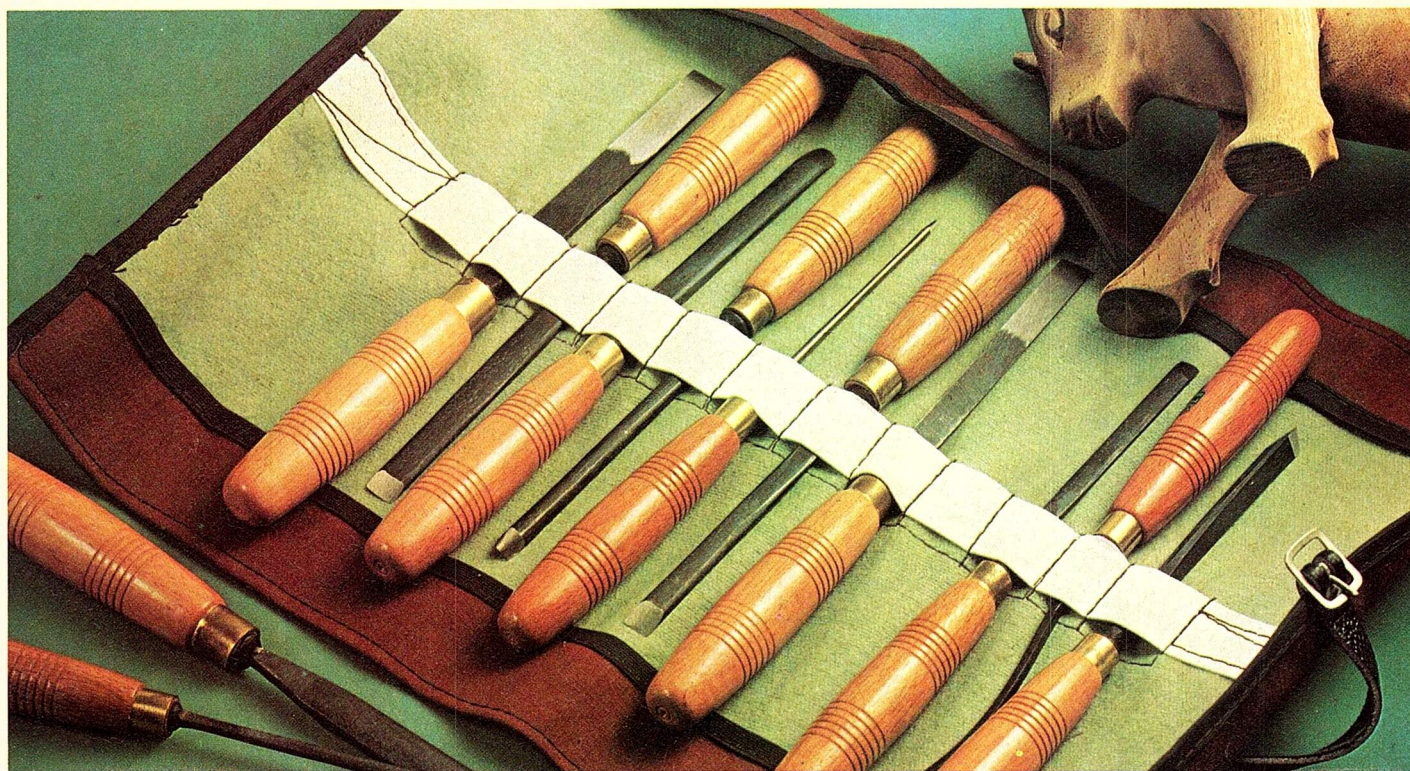
104-6220 Set of 24 Tools

Includes:

Straight Chisels 2, 6, 10, 16, 20mm
Skew Chisels 6, 12mm
#3 Gouge 8, 12mm
#5 Gouge 6, 10, 16, 20mm
#8 Gouge 2, 6, 10, 16mm
#10 Gouge 2, 4, 6, 10mm
Parting Tools 4, 8mm
Veiner 1mm



Acorn Carving Sets



Individual Carving Tools by Henry Taylor Tools Ltd. are listed on page 10. Typical sections and profiles are illustrated on page 11.

Professional Carving Sets

Slightly heavier than the sets listed below, these tools are well suited to the vigorous use of an experienced wood carver. Each set is packed in a handsome canvas roll. The blade of each tool measures approximately 4-1/2". A lignum vitae mallet is included with each set.

- 104-5960 Six Tool Set**
Includes:
Straight Chisel 1/2"
#4 Gouge 5/16"
#5 Gouge 3/8"
#8 Gouge 1/4"
Veiner 1/32"
Parting Tool 1/4"
- 104-5950 Twelve Tool set**
Includes:
Straight Chisel 1/2"
Skew Chisel 3/8"
#3 Gouge 1/4"
#4 Gouge 5/16"
#5 Gouge 3/8"
#6 Gouge 1/2"
#7 Gouge 3/8"
#8 Gouge 1/4"
#9 Gouge 1/8"
Veiner 1/32"
#5 Bent Gouge 1/8"
Parting Tool 1/4"

- 104-5930 Eighteen Tool Set**
Includes:
Straight Chisel 1/2"
#3 Gouge 1/4"
#5 Gouge 3/8"
#7 Gouge 3/8"
#9 Gouge 3/8"
Veiner 1/32"
#5 Bent Gouge 1/8"
Spoon Chisel 3/16"
Parting Tool 1/4"
Skew Chisel 3/8"
#4 Gouge 5/16"
#6 Gouges 1/2" & 3/4"
#8 Gouge 1/4"
#10 Gouge 3/16"
#3 Bent Gouge 1/4"
#9 Bent Gouge 1/4"
#7 Spoon Gouge 3/8"

Acorn Carving Sets (not illustrated)

For a beginning carver, tool selection can be a formidable task. Most sets seem too large and expensive. Individual tools are offered in such a wide variety, it's impossible to know which ones would be most useful. Henry Taylor Tools, manufacturers of the Acorn brand, consulted countless professional woodcarvers to discover which tools are basic to a novice woodcarver. The result is a series of woodcarving tool kits that can be built progressively up to a full set of twelve basic tools. The blade of each tool measures approximately 3-1/2".

- 104-5990 Three Piece Beginner Set**
Includes:
Skew Chisel 3/8"
#4 Gouge 3/16"
#8 Bent Gouge 5/16"
- 104-5980 Six Piece Starter Set**
Includes:
Skew Chisel 3/8"
#4 Gouge 3/16"
#5 Gouge 3/8"
#8 Bent Gouge 5/16"
Spoon Bit Chisel 1/4"
Parting Tool 1/4"
- 104-6000 Make-up Set #1**
Includes:
#5 Gouge 3/8"
Spoon Bit Chisel 1/4"
Parting Tool 1/4"
- 104-6010 Make-up Set #2**
Includes:
Straight Chisel 1/4"
#8 Gouge 1/4"
Veining Tool 1/16"
- 104-6020 Make-up Set #3**
Includes:
#5 Gouge 1/8"
#6 Gouge 1/4"
#7 Spoon Bit Gouge 1/4"
- 104-5970 Twelve Piece Craftsman Set**
Comprised of all the tools included in the Starter Set and Make-up Sets #2 and 3 combined.

Drawknives



Swiss Pattern Fishtail Gouges

Available in three widths, all in a #6 sweep. Overall length: about 9".

104-4390 50mm

104-4400 60mm

104-4410 70mm



Carvers, hook onto this!

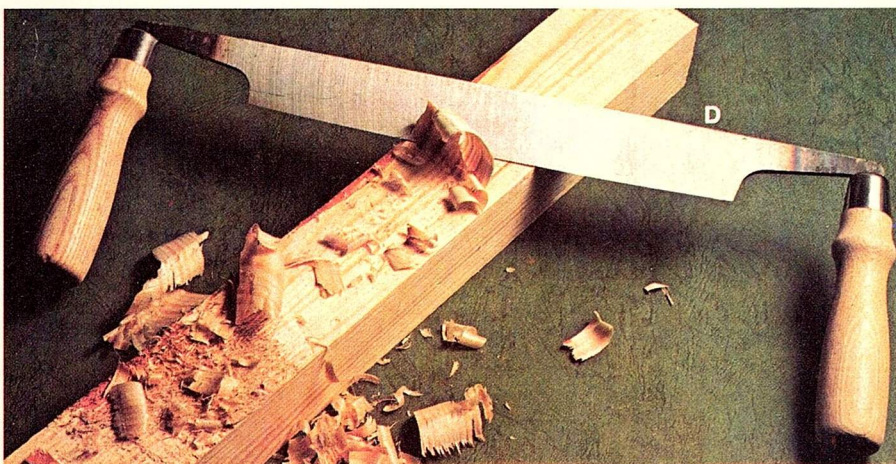
The blade of this odd knife is curved back upon itself. This creates a curved cutting edge that, when scraped across a block of wood, removes a substantial shaving.

A 104-3310 Carvers Hook Knife

Drawknives

used to be available in a bewildering array of styles. Every trade had its own preferred configuration. The drawknives we offer are made of finest German forged steel. The edges are slightly curved and ground but must be sharpened before use.

		Blade Length
B	109-1350	140mm
	109-1360	200mm
	109-1370	250mm
	109-1380	300mm



The Coopers Inshave

Originally called an "inside shave", the intended use of this tool was to level the joints of staves inside a barrel. Useful today for all kinds of scooping jobs, as in bowls or chair seats. Must be sharpened before use.

C 109-0500 Inshave

Draw Knife

The manufacturers catalog merely states, with the usual British self effacement, "cast steel draw knife with polished hard wood handles". What is left unsaid is more important.

This high quality tool has a tang extending the full length of the handles. The 10-14" blade is flat ground and has a 1/4" bevel. The blade width is 1-5/8" and the overall length is almost 17"

D 109-0690 Draw Knife

Turning Tools

Diamic Turning Tools

Manufactured by the Henry Taylor Company of Sheffield, England. These tools are well known for their quality throughout the United Kingdom to amateur and professional turners alike. Here we offer the most popular individual tools. Sets are displayed on the following page.

- 104-2690 1/2" Skew Chisel
- 104-2700 1" Skew Chisel
- 104-2730 1/4" Turning Gouge
- 104-2740 1/2" Turning Gouge
- 104-2750 3/4" Turning Gouge
- 104-2770 3/4" Deep Fluting Gouge
- 104-2780 3/8" Long & Strong Deep Gouge
- 104-2790 1/2" Long & Strong Deep Gouge
- 104-2800 1/2" Long & Strong Skew Chisel
- 104-2720 1/2" Round Nose Tool
- 104-2710 1/2" Diamond Point Tool
- 104-2810 3/8" Beading and Parting Tool
- 104-2760 1/4" Parting Tool

Wood Turning Tools

Most of the distinguishing characteristics of turning tools are self-evident: the extra long, thick blades; the lack of a bolster on the long tang; the very long turned handle with a bulbous section behind the ferrule tapering toward the end, which usually flares slightly. Often, the handles are long enough to tuck under the arm to improve two hand control of the working end. Turning tools are intended for lathe work, where the force is applied across the blade rather than along its length, as with the usual carpenters chisels and gouges.

Turning tools are used with both hands. One hand grips the blade, the other the handle. The blade hand controls the cutting action while the handle hand provides steadiness.

Basically, there are five different tools in various widths (exception: the parting tool, made in only one width) available to the wood turner. Overall lengths vary from 13-1/2" to 19", with most tools in the 16-1/2" length.

Wood Turning Gouge

This tool is generally used to quickly size the workpiece. The results are somewhat rough and will need further attention with a turning chisel. Gouges are made in both square and round nose cutting edges which are always ground on the outside (out-cannel).

Wood Turning Chisel

Turning chisels are factory supplied with square or angled (skewed) cutting edges which are ground on both sides. This enables the tool to cut with a slicing action and to be worked in either direction. The main purposes of these tools are to pare a smooth surface, to form beads, and to cut the shoulders of square sinkings.

Round Nose Chisel

This is like the Diamond Point Chisel, sometimes called a scraping tool because of its cutting action. Once upon a time, more than 60 different shapes of scraping tools existed. The chief tasks given to round nose chisels are to cut concave shapes, to make mouldings and do decorative work. The flat blade has a round cutting edge with a 40° bevel.



Turning Tools



Diamond Point Chisel

Another scraping tool very much like the round nose chisel but with the aim of cutting "V" grooves and cleaning up square shoulders. The flat blade has a V-shaped cutting edge ground on one side. The included angle is 90°.

Parting Tool

The blade end tapers to a long point and is used on edge as a narrow chisel. The 1/4" wide cutting edge is bevel ground on both sides which are relieved giving a flared appearance. This is done to avoid bending. The dictionary defines parting as "something that serves to separate two or more objects". That is exactly what this tool does. It separates the finished turning from the waste end, although on heavier pieces a fine toothed saw and a wood chisel are often necessary to finish the job.

Diamic Turning Tool Sets

104-2670 Five Piece Set

Includes: 1/2" Skew Chisel, 1/2" Diamond Point Tool, 1/4" Turning Gouge, 1/2" Turning Gouge, 1/4" Parting Tool

104-2680 Eight Piece Set

Includes: 1/2" Skew Chisel, 1" Skew Chisel, 1/2" Round Nose Tool, 1/2" Diamond Point Tool, 1/4" Turning Gouge, 1/2" Turning Gouge, 3/4" Turning Gouge, 1/4" Parting Tool

Two Cherries Turning Tools

The same care and quality that goes into the manufacture of Two Cherries chisels and carving tools is also present in their turning tools.

104-2960 6mm Skew Turning Chisel, 1 side convex

104-2970 12mm Skew Turning Chisel, 1 side convex

104-2980 20mm Skew Turning Chisel, 1 side convex

104-2990 6mm Diamond Point Turning Tool

104-3000 12mm Diamond Point Turning Tool

104-3010 20mm Diamond Point Turning Tool

104-3020 6mm Round Nose Turning Tool

104-3030 12mm Round Nose Turning Tool

104-3040 20mm Round Nose Turning Tool

104-3050 6mm Turning Gouge

104-3060 12mm Turning Gouge

104-3070 20mm Turning Gouge

104-3080 6mm Skew Turning Chisel, 2 sides convex

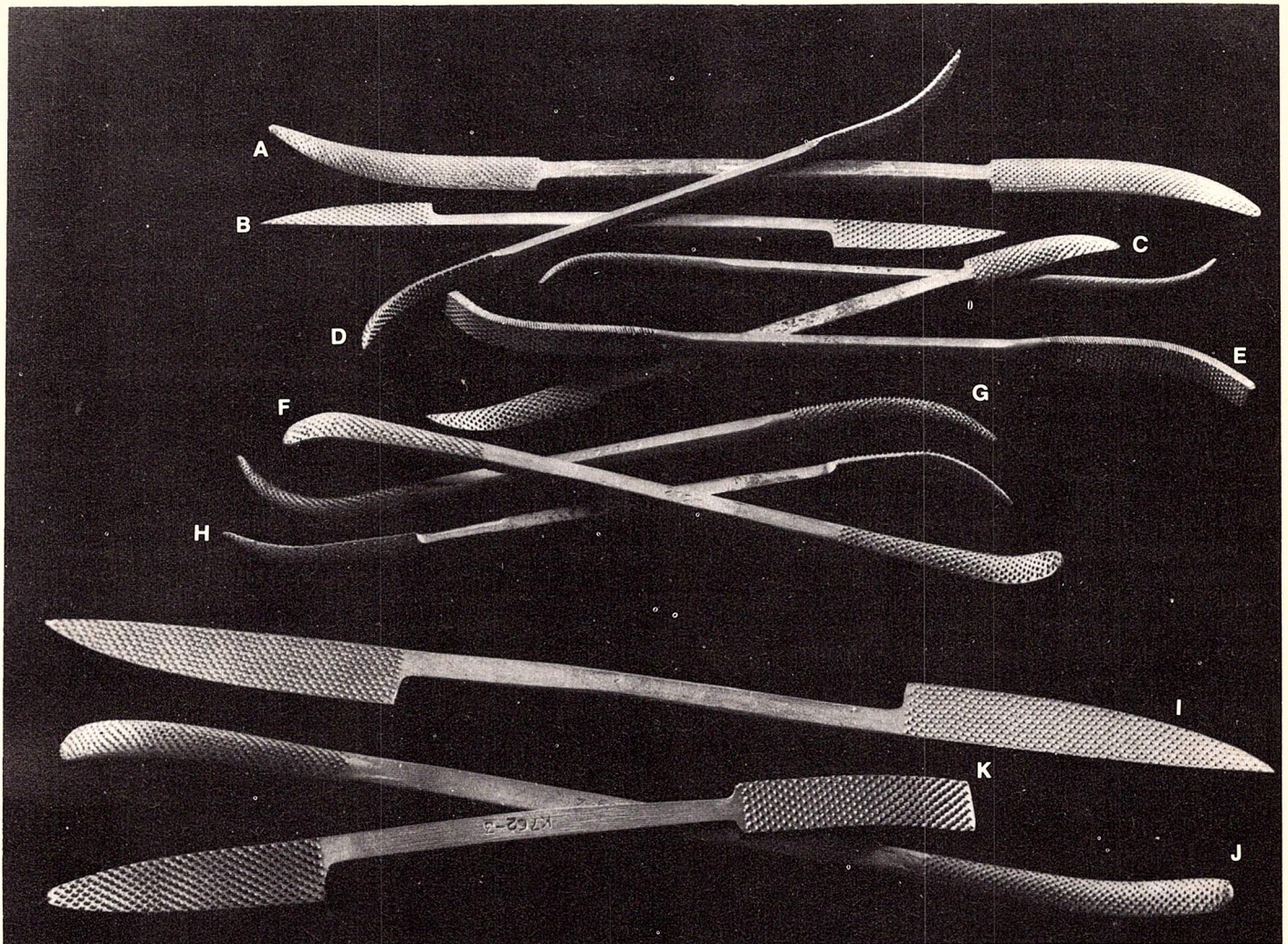
104-3090 12mm Skew Turning Chisel, 2 sides convex

104-3100 20mm Skew Turning Chisel, 2 sides convex

104-3110 6mm Parting Tool



Riffler Rasps



Rasps, Rifflers, and Needle Files

Axiomatic among cabinet makers, carvers, and sculptors is the proposition that "the best isn't good enough".

Nevertheless, it was with no little trepidation that we placed our initial order for this collection of rifflers, wood and cabinet rasps, and needle files. The riffler rasps are hand made throughout, from forging to finishing. Each tooth is separately raised. The quality of the entire range is truly incomparable. But, initially

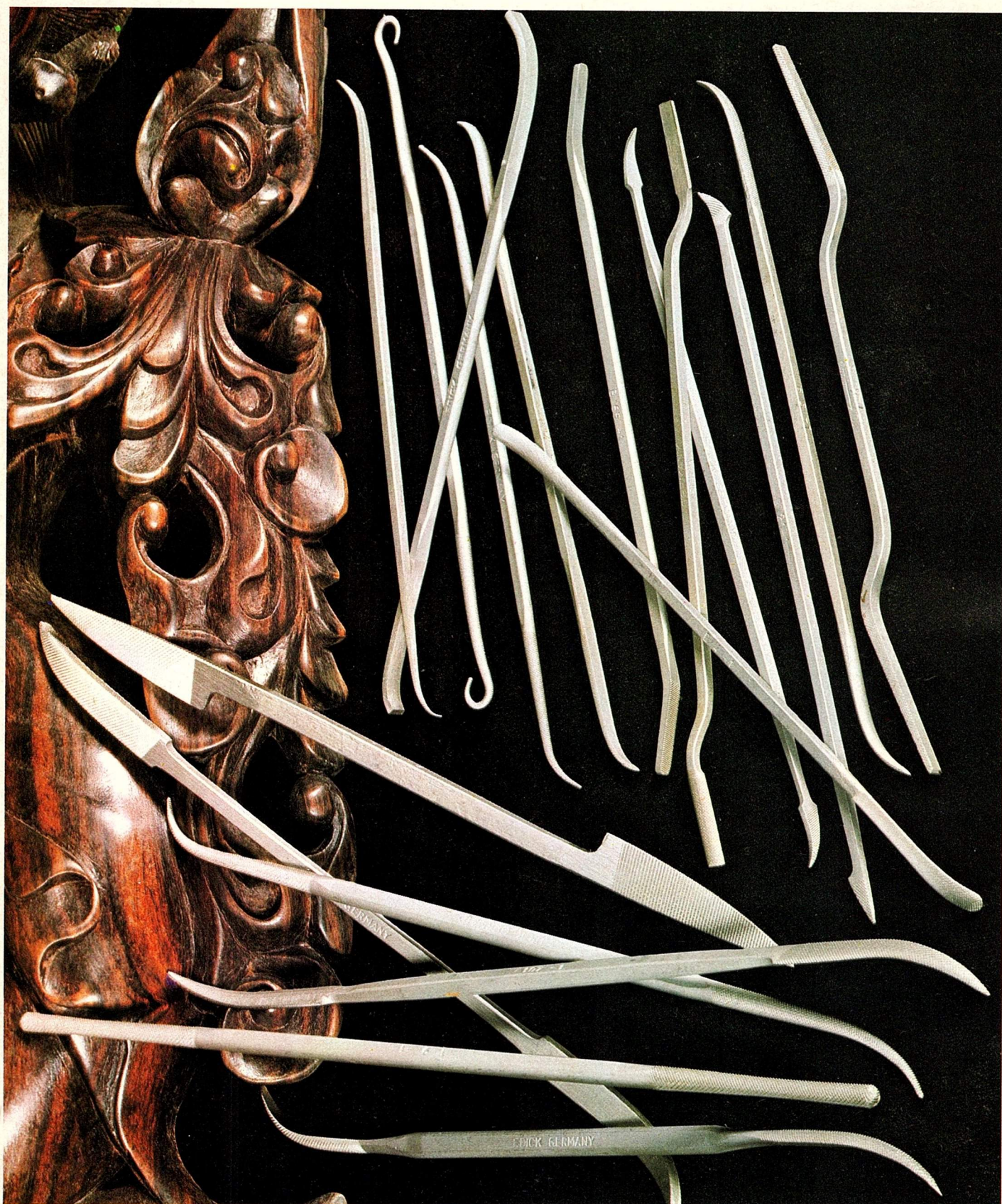
we wondered, will our customers buy them? They are expensive! The answer came in our Westport, Connecticut store shortly after the tools arrived: "Magnificent". "Without compare". "Easily the best I've ever used". Considering that so many of our customers are sculptors, carvers, and professional wood workers, we were flattered by their comments.

Many lay claim to offering the best. We deliver it.

Cabinet Makers Riffler Rasps

A	106-0190	8" Riffler Rasp Cut 3
B	106-0170	8" Riffler Rasp Cut 3
C	106-0200	7-1/4" Riffler Rasp Cut 5
D	106-0150	8" Riffler Rasp Cut 3
E	106-0130	8" Riffler Rasp Cut 3
F	106-0180	8" Riffler Rasp Cut 3
G	106-0160	8" Riffler Rasp Cut 3
H	106-0140	8" Riffler Rasp Cut 3
I	106-0240	12" Riffler Rasp Cut 4
J	106-0210	11" Riffler Rasp Cut 4
K	106-0230	8-1/4" Riffler Rasp Cut 3
	106-0880	Set of seven 8" Rifflers

Engravers Rifflers

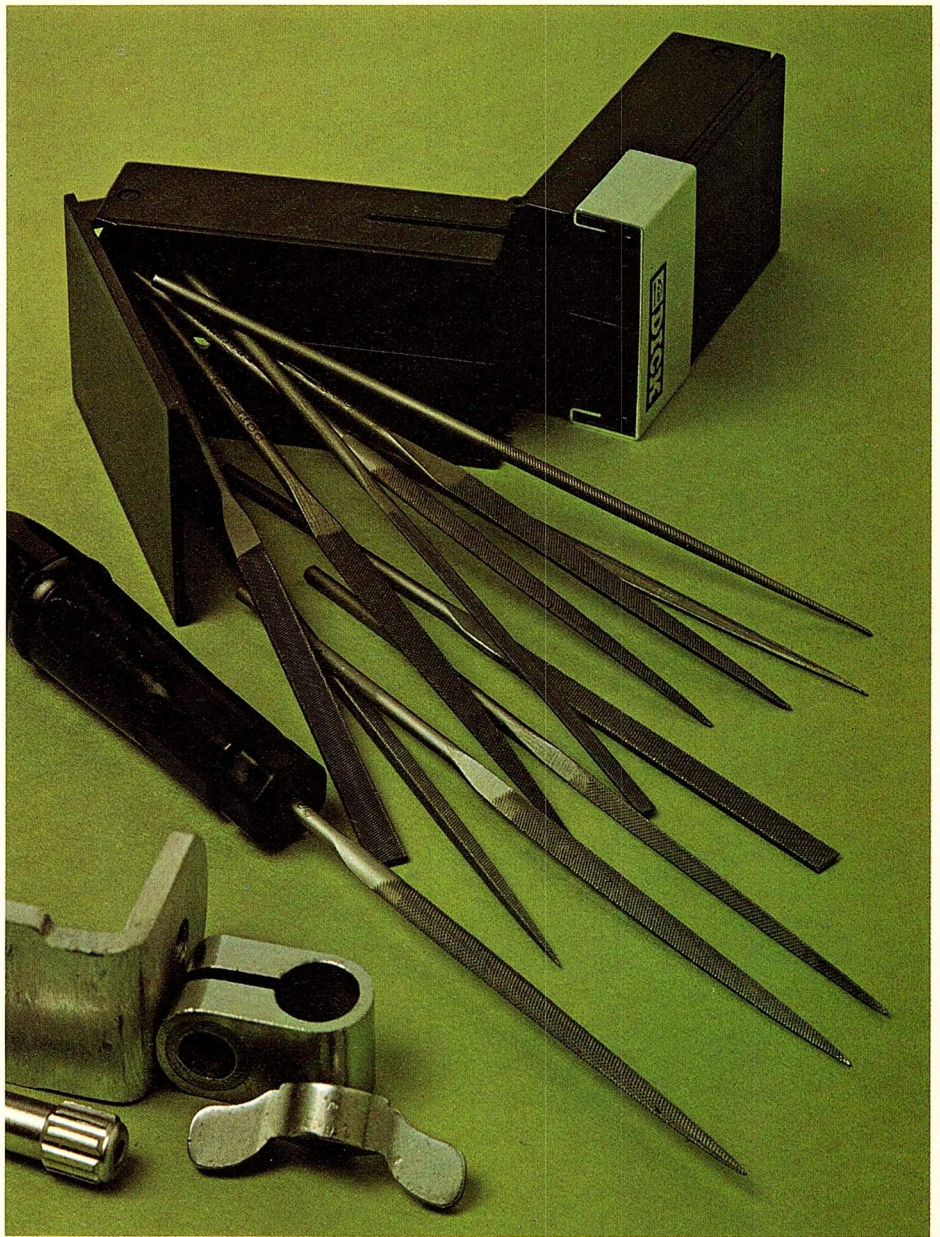


7" Die Sinkers' or Engravers' Rifflers

106-0310 Set of 12 #2 cut

106-0320 Set of 6 #2 cut

Needle Files



Needle Files

Needle files make fine finishing tools, in addition to their normal use. Also, they are useful for sharpening the fragile spurs on spur nosed drill bits.

5-1/2" Needle file set of 12 in 4 compartment plastic box

- 106-0280 #00 Cut—Extra Fine
- 106-0290 #1 Cut—Fine
- 106-0300 Bakelite handle 3-5/32" long. Will hold needle files from 5-1/2" to 7-3/4" long.

Wood Rasps



Wood Rasps #5 Cut—Extra Fine

Cabinet rasps have a more graceful and less pronounced curvature on one side than half round wood rasps. Note the differences in width and thickness.

106-0690
106-0270
106-0250
106-0670
106-0680
106-0260
106-0660
106-0700

Style	Length	Width	Thickness
Round	6"	1/4"	1/4"
Round	8"	5/16"	5/16"
Hand	8"	25/32"	13/64"
Cabinet	10"	1-15/64"	13/64"
Cabinet	12"	1-25/64"	15/64"
Half Round	8"	25/32"	15/16"
Half Round	10"	7/32"	9/32"
Adjustable File Handle			

Sharpening



Sharpening Systems

Dull tools can hack it. But, is that what you want?

Do you have a 10-year old saddle back sharpening stone lying somewhere around your workshop? Is it full of metal particles? Does it really sharpen your tools? Even a brand new combination stone is, by itself, inadequate to properly maintain the variety of edges your tools require. Why not consider a sharpening system such as the Multi-Oilstone® illustrated below and supplement it with an optional Hard Arkansas stone and whatever special purpose stones fit your particular needs. These are products that will last several lifetimes and, unlike dull tools, will always serve you well.

Some definitions to guide your selections:

Crystolon or Silicon Carbide:

A man-made product where speed of sharpening is more important than fineness of cutting edge. Available in fine, and coarse grits.

India or Aluminum Oxide:

Also man-made but produces keen, long lasting, smooth cutting edges. Available in fine, and coarse grits.

Coarse Grit:

For restoring a badly worn cutting edge and for all sharpening not requiring a keen edge.

Fine Grit:

Will provide a working edge on wood-working and cutting tools.

Arkansas:

Nature's best.

Washita:

A coarse, natural stone, used as a preliminary to finer honing.

Soft Arkansas:

A good general purpose grade that can promise speed of sharpening and quality of edge.

Hard Arkansas:

This dense, white stone is best for the final polishing of an already sharp edge acquired on an India stone.

Black Hard Arkansas:

Ranges in color from ebony to dark grey. This is a rare and therefore expensive stone ideally suited for touching up an already extremely sharp edge on delicate instruments and precision tools.

Oil Pre-Filling

A sharpening stone is a porous mass of tiny crystals bonded together. Pushing a metal edge across the stone removes metal particles from the edge and grain crystals from the stone. The combination will clog the pores, thus impeding the cutting action.

Oiling the stone on its surface will suspend the metal and crystal particles in the oil and keep the pores open. Because the stone absorbs the oil which passes through it, constant oiling will be necessary. To counter this absorption, India and Crystolon stones are supplied pre-oiled.

Arkansas stones are so dense, and their absorption rate so slow, pre-oiling is not necessary.



The Multi-Oilstone® Sharpening System

All the features of a first-rate sharpening system are incorporated herein.

Three different 11-1/2" long X 2-1/2" wide X 1/2" thick sharpening stones are available at your fingertips by merely rotating the assembly. The two stones not in use, are immersed in oil. The heavy, non-skid, suction-footed base also serves as the oil reservoir.

The unit includes two Crystolon (silicon carbide) stones, in coarse and medium grits, and a fine India (aluminum oxide)

stone, plus a pint of oil and a cover.

Actually, the only stone missing is a black hard Arkansas for he who must have the ultimate in honing. Despair not, ye purists. It is available as an option.

- 500-0090 The Multi-Oilstone System
- 500-1050 An Extra 16 Oz. Tin of Special Oil
- 500-1040 The Ultimate: A Black Hard Arkansas Stone

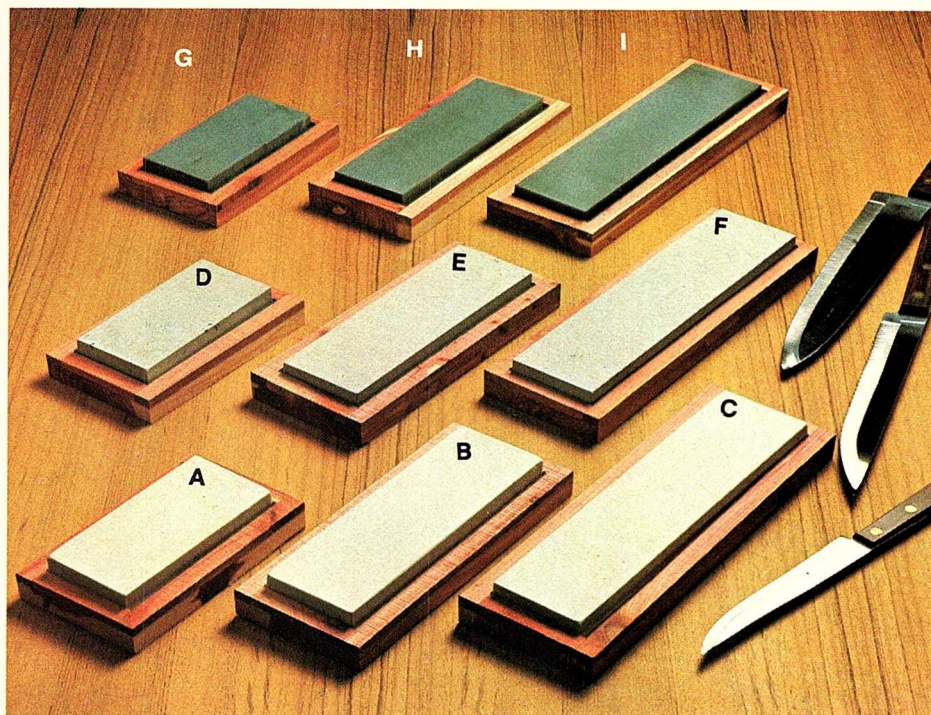


Arkansas Honing Kit

This is inexpensive enough to keep a kit wherever you have cutting tools: your toolbox; your tackle box; the kitchen. The kit contains a hard stone (4" X 1" X 1/2"), a soft stone (5" X 1-5/8" X 1/2") and a 4 oz. tin of special sharpening oil.

- 500-0970 Arkansas Honing Kit

Bench Stones

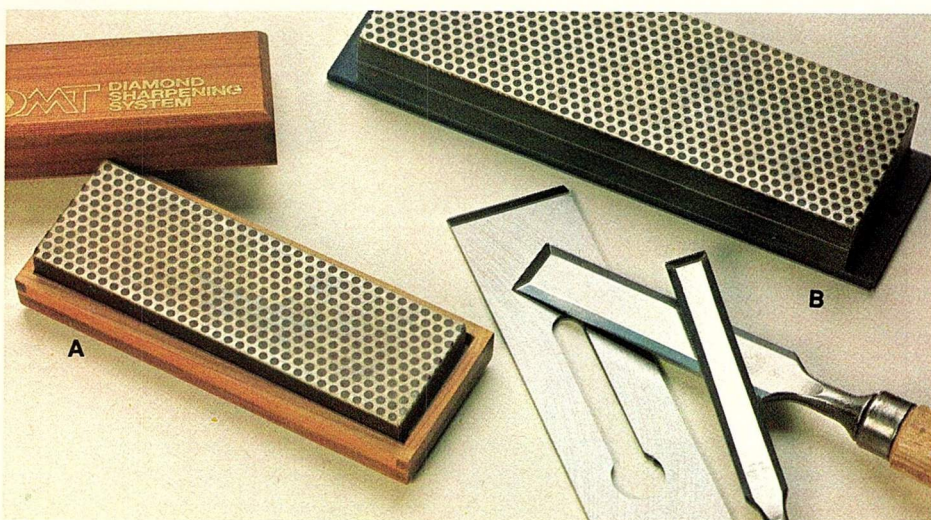


Natural Sharpening Stones

Considered by many to be the best stones for sharpening tools.

We have three grades which will meet all your sharpening needs: Soft Arkansas for general sharpening; Hard Arkansas to bring your blades to a razor edge; and Black Hard Arkansas for honing to a surgical sharpness. Always use these stones with honing oil. All are 1/2" thick.

- | | | |
|---|----------|-----------------------------|
| A | 500-0890 | Soft Arkansas-4" X 2" |
| B | 500-0900 | Soft Arkansas-6" X 2" |
| C | 500-0020 | Soft Arkansas-8" X 2" |
| D | 500-0910 | Hard Arkansas-4" X 2" |
| E | 500-0920 | Hard Arkansas-6" X 2" |
| F | 500-0030 | Hard Arkansas-8" X 2" |
| G | 500-0930 | Black Hard Arkansas-4" X 2" |
| H | 500-0940 | Black Hard Arkansas-6" X 2" |
| I | 500-0040 | Black Hard Arkansas-8" X 2" |
| | 500-0050 | 4 oz. Tin Special Oil |
| | 500-1040 | 16 oz. Tin Special Oil |

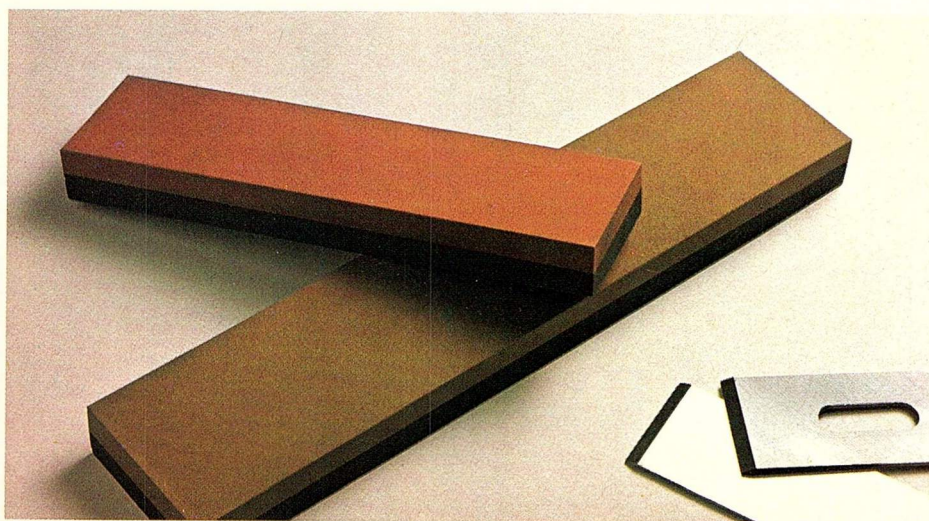


You can mount 'em, but you can't saddle 'em

Diamond Hones

Thousands of industrial diamonds are imbedded in a nickel grid which is permanently bonded to an unbreakable base. Because diamond is the hardest material known to man, you won't be able to saddle the surface even after years of use. It will always stay flat. Cutting is fast and clean and uses only water as a lubricant. The 6" size is mounted in a cedar box; the 8" has mounting tabs for securing the hone to your bench for heavy duty work.

- | | | |
|---|----------|---|
| A | 500-1070 | 6" X 2" X 3/4" Diamond Hone Fine Grit |
| B | 500-1060 | 8" X 2" X 1-1/8" Diamond Hone Coarse Grit |



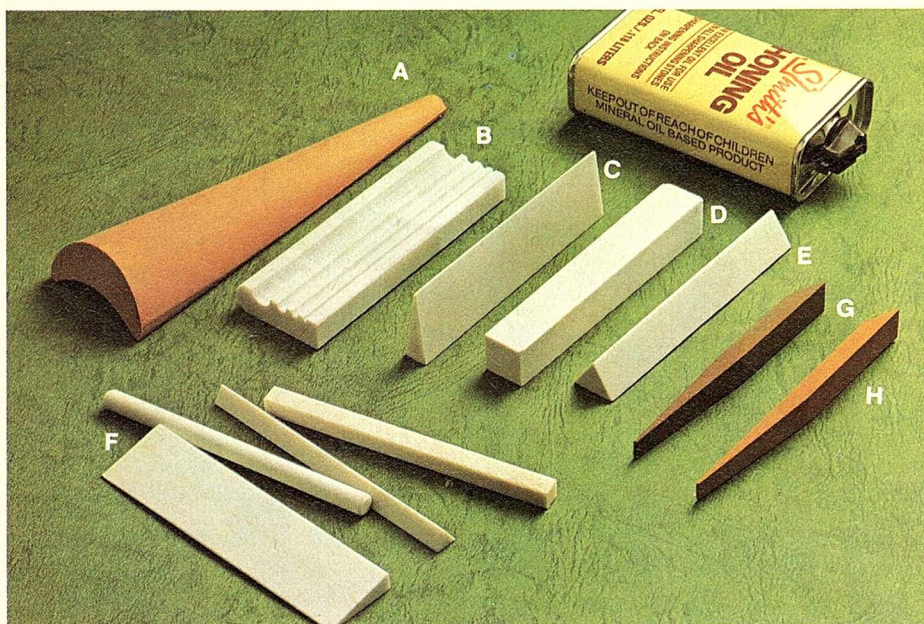
Combination Sharpening Stones

Used with plenty of high quality oil, these combination sharpening stones will make quick work of any honing job. One side is coarse and cuts fast; the other is fine and cuts slower, leaving a more polished edge. For extra fine honing finish up with a Hard Arkansas stone.

Available in India (aluminum oxide) and Crystolon (silicon carbide)

- | | |
|----------|--|
| 500-0340 | India Stone: 8" X 2" X 1" |
| 500-0350 | India Stone: 11-1/2" X 2-1/2" X 1" |
| 500-1150 | Crystolon Stone: 8" X 2" X 1" |
| 500-1160 | Crystolon Stone: 11-1/2" X 2-1/2" X 1" |

Special Slip Stones

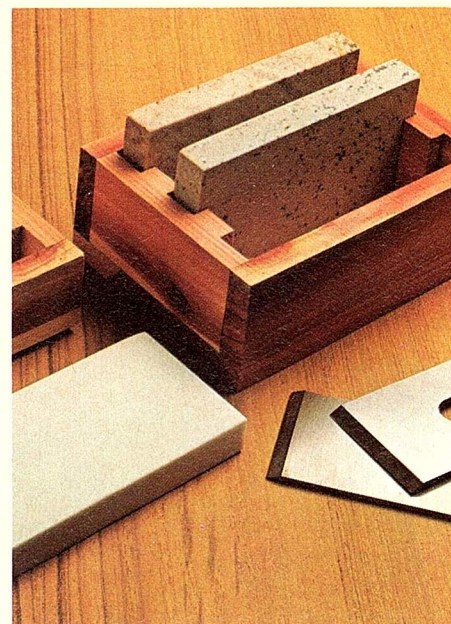


Special Shaped Stones

A variety of special stones for honing odd shaped edges such as are found on carving tools and auger bits.

- A 500-0070** India Cone Gouge Slip: 6" long; 2" wide; 1" thick; tapers 1/2" X 3/8"
- B 500-0080** Grooved Hard Arkansas Stone: 4" X 1-1/2" X 1/2"; 4 grooves with 1, 2, 4, 8 mm diameters
- C 500-0390** Hard Arkansas Knife: 4" X 1"; Tapers 1/4" X 1/32"
- D 500-0950** Hard Arkansas Square: 4" X 5/8"

- E 500-0400** Hard Arkansas Triangle: 4" X 5/8"
- F 500-0980** Hard Arkansas File Set-4 pieces Triangle 4" X 1/4" Round 4" X 1/4" Square 4" X 1/4" Knife 4" X 1" Tapers 1/4" X 1/32"
- G 500-0410** Fine Grit India Auger Bit Stone-4" Long
- H 500-0420** Medium Grit India Auger Bit Stone-4" Long
- 500-0050 4 Oz. Tin Special Oil
- 500-1050 16 Oz. Tin Special Oil



Three Stone Set

The most popular natural stones packed in a handy cedar box—Washita, Soft Arkansas, and Hard Arkansas. Each stone measures 4" X 2" X 1/2".

500-0430 Three Stone Set

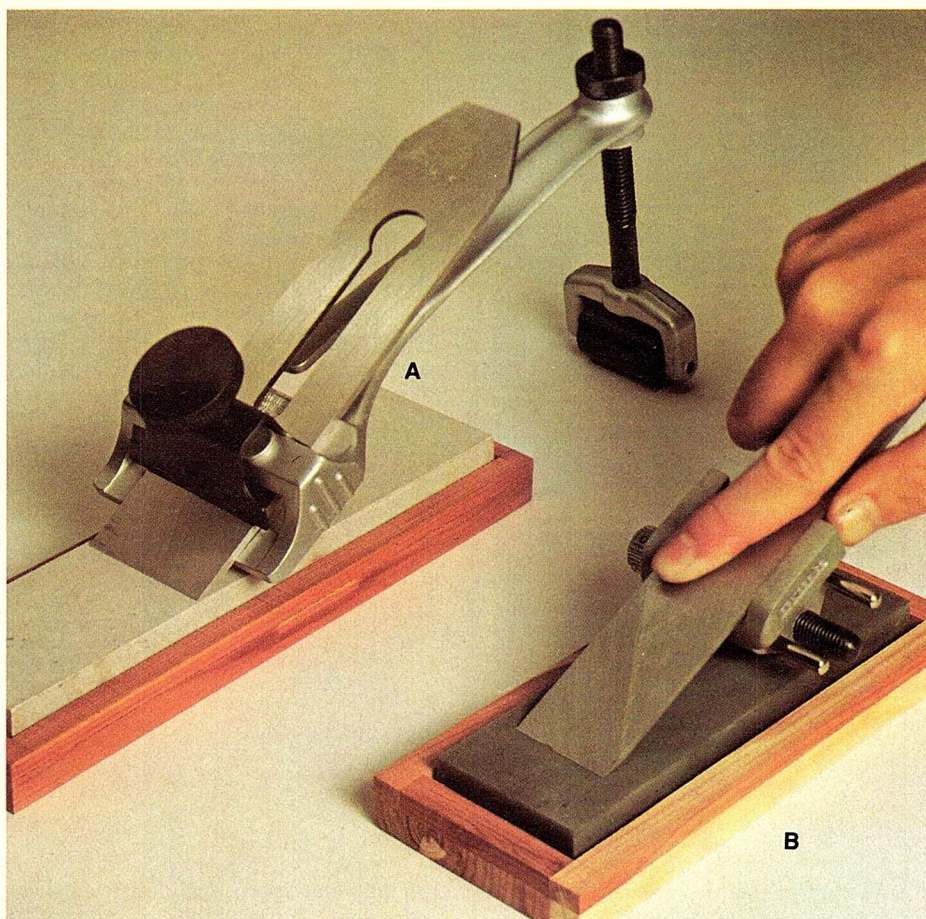


Slip Stones, the carver's friend.

The stones are rounded on both edges and taper from thick to thin to permit the user to sharpen his curved tools.

	Type	Size	Taper
500-1180	India	4-1/2" X 1-3/4"	1/4" X 1/16"
500-1190	India	4-1/2" X 1-3/4"	3/8" X 1/8"
500-1200	India	4-1/2" X 1-3/4"	1/2" X 3/16"
500-1210	India	5" X 1"	5/16" X 3/32"
500-0370	Soft Arkansas	4" X 2"	1/2" X 1/8"
500-0360	Hard Arkansas	4" X 2"	1/2" X 1/8"

Honing Guides



Would you shave your face with a dull blade?

The results are more painful, but similar to using dull chisels or dull plane blades. The solution is simple. This chisel and plane blade sharpener will keep your blades factory sharp and maintain their original bevel. The roller screw can be adjusted to correct blade bevel. Good for blades up to 2-1/2" wide. You supply the dull blades and the oil stone. (We carry a tremendous selection of oil stones, should you be in need.)

A 103-0350 Chisel-Plane Blade Sharpener

Here's an even simpler chisel-plane blade sharpener

Once again you supply the dull tools and the oil stone. Will accept blades from 1/16" to 2-5/8".

B 103-0140 Honing Guide

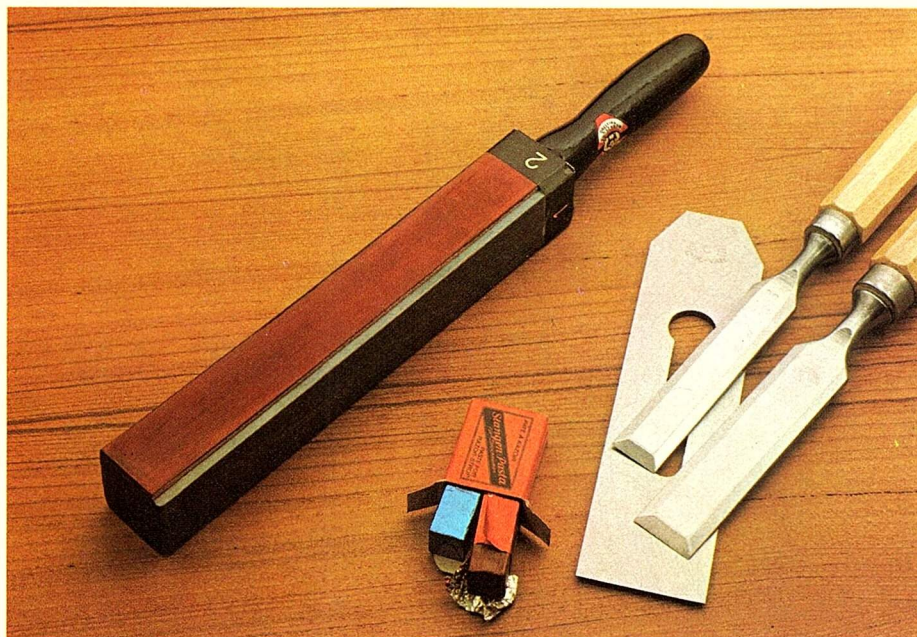


When we first examined this strange looking product, we were highly skeptical

But actually, it couldn't be easier to use. All you do is position the drill, secure it, roll the unit back and forth over the abrasive paper, and presto! A sharp drill tip. Will take drills from 1/8" to 1/2". It's almost as easy as sharpening a pencil.

103-0170 Drill Sharpener

Strop & Saw Set



Barber strops have only two sides. Our woodworkers' strop has four.

Of course, hollow ground razors don't need four different stroppings, particularly as any barber worth his salt stropps his blade after or before every use. However, woodworking tools take more abuse and need the coarse to fine sharpening to keep them as sharp as a razor's edge. Our stropps use, on the coarsest side, an emery surface to break the burrs left after sharpening. Next, there are coarse and fine stropps to bring the edge to razor sharpness. The last side is plain leather which handles the final stropping. Included with the strop is a cutting compound for use on the coarse and fine stropps.

Strop measures 13-1/2" X 1-3/8" X 1-3/8"

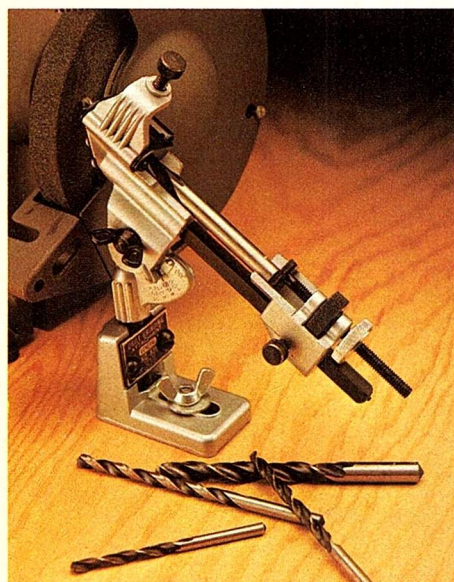
103-0310 Four-sided strop

103-0320 Extra compound

Drill Sharpening Attachment

Another device for sharpening drills, this one is used with your bench grinder. The cradle that holds the drill is adjustable, permitting you to grind the correct angle for the material you expect to be drilling. For drills from 1/8" to 3/4" in diameter. Complete instructions are included.

103-0360 Drill Sharpening Attachment



"Why do I need a saw set or sharpener?" the novice asked. "I only use my hand saw two or three times a year."

Well, we guess he doesn't — at least not for five or more years. But the rest of us do. Dislocated teeth make for awfully hard and inaccurate sawing. Our saw set is fully adjustable and self-contained. In one smooth movement it grips the saw and then accurately sets the tip of the tooth to the proper angle without

straining the tooth root. For hand saws with 4 to 12 points and up to 1.6 mm (16 gauge) thick. For saws 16 points and finer, see a specialist.

The Saw Sharpener provides a guide and a saw file in a frame that is duck soup to use and will restore tooth sharpness to the performance level when the saw left the factory.

A 100-0230 Saw Set

B 100-0240 Saw Sharpener



Hand Planes



Plane Talk

There are those among us who hold the belief that the plane, in most if not all its forms, is obsolete, having gone the way of the ice-box and the coal burning stove (although the latter may experience a revival). The marvelous invention presumed by such people to have obsoleted the family of planes is the portable belt sander, the short cut to a finished surface. This school of thought does not take into account the difference between painting by the numbers and creating a work of art. The best woodwork has always been done by cutting or scraping, not abrading. The finished piece with its hand planed surface will have an individuality not possible to create with a belt sander. A look at the hand tooled surface of antique furniture will quickly convince the most skeptical of the considerable differences between hand planing and sanding.

In terms of woodworking hand tools, nothing more important than the wooden plane has been invented in the last 2000 years. Without it, there would have been no significant amount of home building prior to 1845, the year the thickness planer was invented. Up to that time lumber was supplied rough-sawn (like the side of an old barn) and the craftsman was expected to dress it. He commenced this job with a jack or fore plane, commonly about 15" in length. Because of the considerable effort required to plane the surface of rough-sawn, the plane iron was ground convexly with curved edges. This prevented the usual square edges of the iron from digging into the lumber and choking or clogging the throat, thereby stalling the plane's movement. Very considerable effort went into rough-smoothing every surface of the rough-sawn plank because of the force required to move the jack plane over the plank. The stroke of the plane is short, no longer actually than the throw of the users arm, and even shorter if he is planing hard wood at perhaps a 70 degree or greater angle.

After rough planing with the jack plane, a try or trying jointer plane was used. This plane was about 22" to 24" long. It looks like a long jack plane except that the try plane usually had a closed handle or toat. What it did was to clean up after the jack plane which left the board furrowed because of its wide open mouth that permitted the thick shavings to pass through. The work the jack plane did was considered OK for unseen surfaces, such as the bottom of chairs, or the back of furniture that was set against a wall. The try plane's purpose is to true ("tried and true") surfaces so they can accurately match adjoining surfaces. Even the 2-1/2 foot wide pine available then had to be joined to similar board to make an even wider surface. Such joints had to be scarcely discernible. Errors in stock removal were very annoying as they took much time and effort to correct. Thus, the iron of the try plane is much shallower than the jack plane and removes the thinnest of shavings. This long plane is walked the length of the board until it removes a continuous chip as wide as its mouth and as long as the board at which point the board's surface is tried and true. Some minor scraping work may still have to be done, and if there were any knots a smoothing plane would be brought out to finish the job. This plane varies in length from 6-1/2" to 9". It has no handle, and the front and rear of the body are tapered to give a comfortable grip. As a result of the shape, it is sometimes called a coffin plane. The sole is, in the best examples, made of lignum vitae. The set of the iron, which should be razor sharp, is even finer than the try plane. Many variants were developed over the years. Of all the bench planes, it is among the most popular, surpassed only by the jack plane. It leaves no tool marks and could handle a multitude of tasks.

Moulding Planes

This is the second group of planes (the third is lumped together as specialty planes), and what a large category it is. If you have an

electric router you know how vast the quantity of available cutters can be, particularly if you buy one graduated set of each. The range of moulding planes was greater still as they were often made to order to suit the taste of the individual customer. In addition, styles changed and so there was a certain element of obsolescence. Basically, there were, and still are, only three classifications, separated by the forms they produced. Every woodworker, prior to the mid 19th century, was dependent on all three, with complete graduated sets of each style in the tool chest of the urban master joiner. The country woodworker could limit his collection to only the most popular.

1. Hollows and Rounds

These moulding planes, commonly sold in pairs, are named for the outline of their soles while other moulding planes are named for the shapes they produce. The hollow, being concave, cuts the reed and the convex round cuts the flute. Neither was provided with a fence or a slot. They are uncomplicated, unmechanical tools that offered the woodworker an opportunity for artistic self expression. They may better have been called shapers, superior to chisels and gouges, because of the element of control the user is able to exercise, thanks to the sole.

2. Simple Moulding Planes

These moulding planes make the fundamental moulding patterns such as ordinary bead, core thumbnail, ovolo, cyma recta (ogee) and reverse ogee cyma. These were available in graduated sets. The most common was the bead. As with hollows and rounds, every craftsman owned several sizes, and joiners maintained full sets from 1/8" to over 1".

3. Complex moulding planes were available in truly tremendous variety.

They ranged in width from perhaps 1/2", for working desks and chairs, to as much as 6-1/2", for cornice creation. Crown and cornice mouldings planes and chair rail planes were, unlike other moulding planes, frequently provided with a handle and a bar, or a hole in the front to which a cord or pulling stick would be attached. While the apprentice pulls, the joiner, holding the handle, guides. It was rough going. Among the shapes the complex moulding planes cut (shaved?) were ogee and quirked bead, ovolo and ogee, quirked ogee and astragal, reverse ogee with fillet on top and so on.

By 1770, the length of English moulding planes was set by agreement at 9-1/2". The planes used by cabinet makers suffered greater wear than those used by joiners because the former worked primarily with hardwoods, particularly figured woods like bird's eye and curly maple. Such is tough stuff. As a result, the soles would wear out rather rapidly until in the late 18th century someone thought of inserting box wood pieces into that portion of the sole that suffered the greatest wear. Boxwood was and still is expensive. Nevertheless, from the boxwood insert the plane makers went to full boxwood soles for their best models. The subsequent use of lignum vitae was a further improvement.

As you know, some bench and most moulding planes are available in four different pitches: common at 45 degrees; York at 50 degrees; middle at 55 degrees; and half pitch at 60 degrees. The greater the pitch, the smoother the cut. Cabinet makers were inclined to the three steeper pitches, whereas the joiner, whose work was not as demanding and who worked softer woods, normally selected common pitch.

Specialty Planes

Into this category must fall rounding and router planes, tee rabbet and toothing planes, inletting and moving fillister planes, dovetail or skewed fillister and stop rabbet or chisel planes and the entire category of shaves, the

sine quo non of the cabinet makers tool box. It is said that shaves were in the top drawer of Duncan Phyfe's tool box. Michael Dunbar, in his most excellent book, "Antique Woodworking Tools", devotes about 100 pages to bench, moulding and special purpose planes. He covers the subject, in word and photo, most adequately for those who would enjoy knowing more about the origin and use of every plane imaginable. Consequently, we will not delve into the rather overpowering area of specialty planes herein. We offer a number for sale on the following pages, and have described them in reasonable detail. Our emphasis throughout has been on wooden planes, the only types available until the development of Leonard Bailey's patents, in 1867, for metal bodied planes. Stanley Rule and Level (now The Stanley Works) acquired Bailey's patents in 1896. The initial Stanley Bailey planes had wood soles and stocks, the wood soles surviving in competition with the 100 percent metal planes until rather recent years. By 1910, the Stanley plane had become the world standard for metal planes and, except for some minor refinements, has remained unchanged to the present day. Wooden planes are, we believe, no longer manufactured in the U.S. or England. However, in Germany, Austria, and Switzerland, and in other European countries, the wooden plane is still dominant, occupying perhaps as much as 95 percent of the craftsman's market.

Perhaps the best known of the European wood plane manufacturers is E. C. Emmerich which started in business as the FWE company in 1852 in Remscheid. They invented the Primus Plane, about which more later. The company, now in the fifth generation of Emmerichs, has established itself as the finest manufacturer of wooden planes in the world. Their products are literally works of art. This is no factory with thousands of workers and numerical controlled machines that turn out tens of thousands of products hourly or even monthly. Rather, in this suburb of Remscheid, thirty workers are employed to manufacture high quality products. Our entire range of wood planes is made by E. C. Emmerich. You can be sure you will be getting the incontestable best from us.

Our metal planes come from Stanley in Sheffield, England and Record, also of Sheffield and our shaves from Kunz in Hannover, Germany, a firm which, since its inception over 50 years ago, has been manufacturing only first class products.

Emmerich planes are available in the Primus and the E.C.E. series. The wedged planes, the original E.C.E. planes, are manufactured from the same woods and with the same care as the modern Primus planes with their patented adjustment system. The wedge holds the iron and, as in former days, is adjusted with a few taps of a mallet. The Primus models have the following advantages:

1. *Anti-backlash depth adjustment:* You get precise regulation of the cutting iron.
2. *Chatter proofing:* The spring tensioned rod pulls back against the throat so the plane can't chatter.

All Emmerich planes feature:

1. *Chrome Vanadium cutting irons hardened to Rockwell 62C.*
2. *Heavy gauge steel cutting and cap irons for vibration free planing.*
3. *Quarter-sawn hardwood bodies seasoned with exacting care to stabilize them against warping or twisting. Further stabilization is achieved by bonding the body to a 1/2" thick sole by a unique castellated glue joint.*
4. *Soles are specially selected wood varieties that are wear resistant, and will glaze over to become slick in wood-to-wood contact.*
5. *Overall design provides a comfortable fit and excellent thrust leverage for both hands.*

Primus Planes



Primus Jack Plane

9-1/2" hornbeam body and lignum vitae sole. The 1-7/8" blade is set at common pitch for general work. The Jack Plane should be your first plane investment as it is so basic.

109-0010 Primus Jack Plane

Also available with beech body and hornbeam sole.

109-0550 Primus Jack Plane

Primus Smooth Plane

8-7/8" beech body and lignum vitae sole. The 1-7/8" blade is bedded at York pitch to minimize tear outs, and to cut very thin, ribbon-like shavings, leaving surfaces nearly ready for finishing.

109-0340 Primus Smooth Plane

Also available with hornbeam sole.

109-0540 Primus Smooth Plane

Primus Try Plane

24" lignum vitae sole and beechwood body. The 2-3/8" wide blade of this jointer plane is ideal for leveling hills and valleys on wide surfaces or long edges. It is a good idea, when using any bench plane, to begin each stroke by pressing down slightly on the front of the plane and to end each stroke by pressing down slightly on the rear of the plane. This will go a long way to counteract the natural tendency to round the front and rear board ends when planing.

B 109-0560 Primus Try Plane

Also available with hornbeam sole.

A 109-0570 Primus Try Plane

Primus Reform Smooth Plane

Finest quality. The ultimate in a fine finishing plane. It is the same as the Primus Smooth Plane #109-0340 but has a handsome pear wood body above its lignum vitae sole and an adjustable toe, which is secured by a screw head on top. That part of the plane sole immediately in front of the blade acts as the primary chip breaker. The smaller the mouth, or the closer the toe to the cutter, the more effective the chip breaker and the less likelihood of tearing the grain.

C 109-0530 Primus Reform Smooth Plane



Traditional Wood Planes



E. C. Emmerich Specialty Planes

Stop Rabbet or Chisel Plane

All hornbeam, 7" long. An absolute delight to use for Paring the last few inches of a stopped rabbet cut with the grain. The 1-1/4" blade mounts on the front of the body and is bedded at York pitch to reduce tear outs. The plane has no toe (front chip breaker); therefore, set the blade for fine cuts and bear down on the rear two thirds of the body.

A 109-0610 Stop Rabbet Plane

E. C. Emmerich Wedged Bench Planes

These are the same as the Primus planes just described without the Primus advantages listed in the introduction to the E. C. Emmerich planes, but with all the other features. Remember, as in the old days (not the fifties of the nineteens but the fifties of the eighteens), these plane irons are adjusted by a few taps of a mallet. Tap top or sides for depth and lateral settings respectively. Tap back of plane to loosen the iron.

D 109-0240 Jack Plane: Beech body; hornbeam sole

109-0250 Smooth Plane: Beech body; hornbeam sole

109-1160 Try Plane: Beech body; hornbeam sole

B 109-0600 Rabbet Plane: All hornbeam

Primus Rabbet Plane

11" hornbeam body and lignum vitae sole. There are countless applications for the rabbet joint this plane cuts. It is especially suited for working long through-rabbets in hardwoods. The 1-1/8" wide double iron is bedded at 52-1/2 degrees, right between York and Middle pitches, to minimize tear outs. The mouth is adjustable.

C 109-0580 Primus Rabbet Plane

Toothing Plane

8-5/8" Beechwood body and Hornbeam sole. The 1-7/8" blade is bedded at 70 degrees to minimize tear outs. It is normally used after a try plane to prepare the ground work for veneering or covering with a plastic laminate. The blade is ridged to score or striate the surface to provide extra holding areas for the glue. Plane with the grain. The plane can also be used to flatten or reduce the surface of burl or bird's-eye figured hardwood grain. Piano makers use this plane to fix the ivory facings to pianoforte keys.

F 109-0590 Toothing Plane

Router Plane (Sometimes called Granny's Tooth)

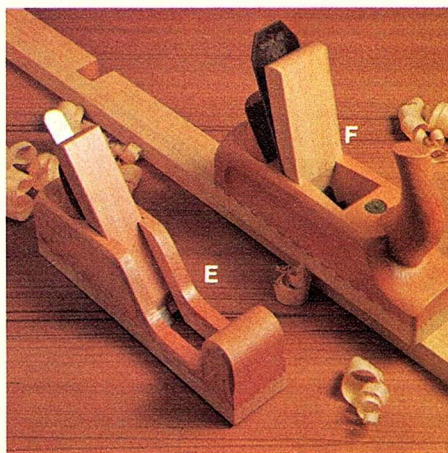
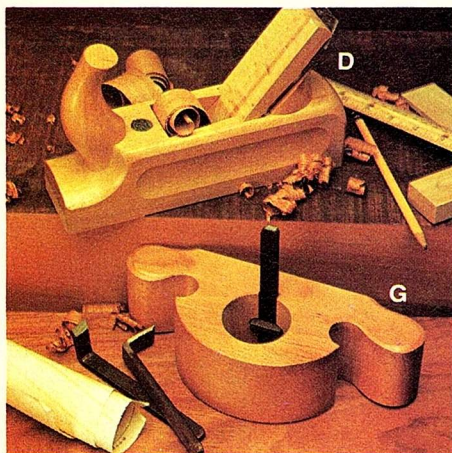
9-1/2" X 4" Beechwood router offers a sure grip for heavy duty routing. The large sole lets you point the cutting edge in any direction. Three router blades, 7/16", 5/8" and 13/16" wide, are included. The heavy gauge blades are securely held in a steel collar to eliminate chatter. This tool is used for routing out the bottom of wide grooves below the surface of the wood, or "depthing" a flat recess in a carving design.

G 109-0620 Router Plane

Inletting Plane

9-1/2" Beechwood body with Hornbeam sole. This is quite an unusual plane in appearance. It is a routing plane quite well suited for hinges, locks, and to other shallow mortising cuts with the grain. In use, you view the cutting action through the top aperture. The cutter is bedded in a groove to assure that it stays square with the sole. To use, scribe the area to be recessed and outline with a chisel. Then, begin with a shallow cut. Tap cutter blade deeper after each successive cut. This plane is also super for blind nailing if the grain is workable. Watching the action through the aperture, raise a 3/4" long curl, drive in the nail, then glue the curl back down for an invisible finish.

E 109-0640 Inletting Plane



Metal Body Planes



Record Special Planes

Circular Plane

10" long; 1-3/4" cutter. Designed for use on concave and convex surfaces. Curvature of the flexible steel sole is quickly and positively set by means of the center screw adjustment. Instruction leaflet included.

A 109-0670 Circular Plane

Record Bench Planes

All Record bench planes employ tungsten vanadium steel cutters that are scientifically hardened and tempered to retain their edges and cut quickly and smoothly even on the hardest woods.

The bodies are ribbed for strength and rigidity. The machined faces of the frog are screwed firmly on to similar machined faces on the body to eliminate chatter.

The cutters are precision ground on all faces and are tested and guaranteed to be the right temper.

All cutter adjustment parts are accurately made to give very fine adjustment, the lateral adjusting lever being fitted with a turned thrust button for smooth operation.

- B 109-0360 Smooth:** 9-1/2" long; 1-3/4" cutter
109-0380 Jack Plane: 14" long; 2" cutter (not illustrated)
109-0370 Jointer Plane: 22" long; 2-3/8" cutter (not illustrated)



Rabbet Plane

13" long; 2-1/8" cutter. Recommended where a heavy section is being cut. Adjustments are similar to other bench planes. Instruction leaflet included.

C 109-0780 Rabbet Plane

Shoulder Rabbet Plane

8-1/8" long; 1-1/4" cutter. Designed for very fine, accurate work. Sole and sides are machined and ground. Will lie flat on either side and can be used in either hand. An improved screw adjustment to the mouth offers a wide range of adjustment for fine or coarse work. The depth of cut is regulated by screw adjustments of the cutter. (Not illustrated)

109-0350 Shoulder Rabbet Plane

Bull Nose Rabbet Plane

4" long; 1-1/8" cutter. Excellent for fine work where extreme accuracy is required. Two steel spacers between the detachable nose and the body provide different mouth adjustments. This model can be converted into a chisel plane by removing the nose. The depth of cut is regulated by screw adjustment. Sole and sides are accurately machined. The plane can be used on either side.

D 109-0390 Bull Nose Rabbet Plane

Three In One Plane

6" long; 1-1/8" cutter. The functions of shoulder rabbet, bull nose, and chisel planes are combined in this plane. The front section is detachable. Sole, sides, and all fitting faces are accurately machined. The plane can be used on either side.

E 109-0410 Three In One Plane

Specialty & Block Planes



Cabinet Makers' (Shoulder) Plane

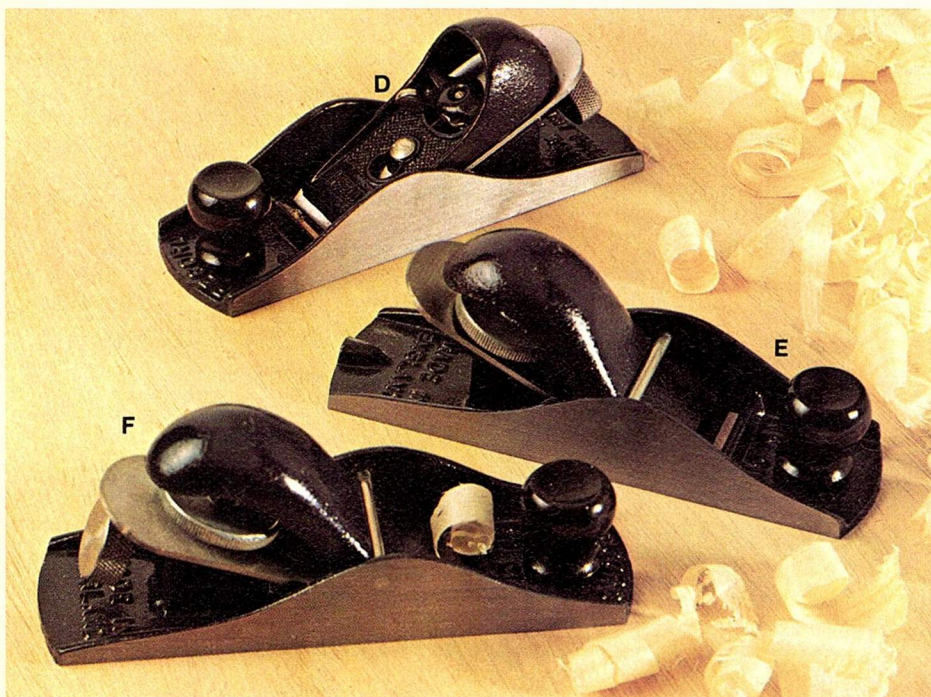
Enticing nickel plated beauties from Stanley of England. Adjustable mouth and cutters, and hand ground sole and sides, put these in a class by themselves. They can be used as rabbet, shoulder, or chisel planes.

- A** 109-0170 6-1/2" long; 1" cutter
109-0180 5-1/2" long; 1" cutter

Router Planes

Modestly priced, top quality, precision built by Stanley of England, these planes are useful for housings, grooves, and inlay work.

- B** 109-0200 7-5/8" long with 3 cutters
1/4", 1/2", 7/16" wide
C 109-0190 3" long with 1 cutter
1/4" wide



Record Block Planes

have high quality carbon steel cutting irons and machined soles and sides. The castings are stove enamelled. These planes are mainly for working end grain, but they are also quite handy for other small planing jobs.

Block Plane

6" long; 1-5/8" cutter. Cutter is screw adjusted and held in position by a lever and cam. The mouth can be set for coarse or fine cuts.

- D** 109-0770 Block Plane

Block Plane

7" long; 1-5/8" cutter. The cutter is held by a knurled wheel and screw. Hard wood front knob.

- E** 109-0790 Block Plane

Block Plane

Same as 109-0790 but with screw adjustment for regulating the depth of cut.

- F** 109-0800 Block Plane

Combination Planes



Plough Plane

9-3/4" long. This plane is used for grooving all types of ploughing and rabbetting work. It is fitted with a double arm bridged fence, for use on either side of the plane, and an adjustable depth gauge of a unique, new design. Ten cutters are supplied that will plough grooves from 1/8" to 1/2" wide and to a depth of 5/8" up to 5" maximum from the work edge. This is the new improved model.

109-0680 Plough Plane



Combination Plane

10" long. This is an advanced version of the plough plane. It combines the function of many single purpose planes in one tool with 18 cutters. It will plough grooves from 1/8" to 7/8" to a depth of 5/8" at any distance from the work edge up to 5". Will also bead 1/8" to 1/2" and make 1/4" tongues. It can be used for dadoing,

center beading, rabbetting, fillistering, tonguing and grooving. Depth gauge and beading stop locking screws incorporate a unique expander for immediate, positive locking as a one hand operation. Full instructions included. Latest model.

109-0650 Combination Plane

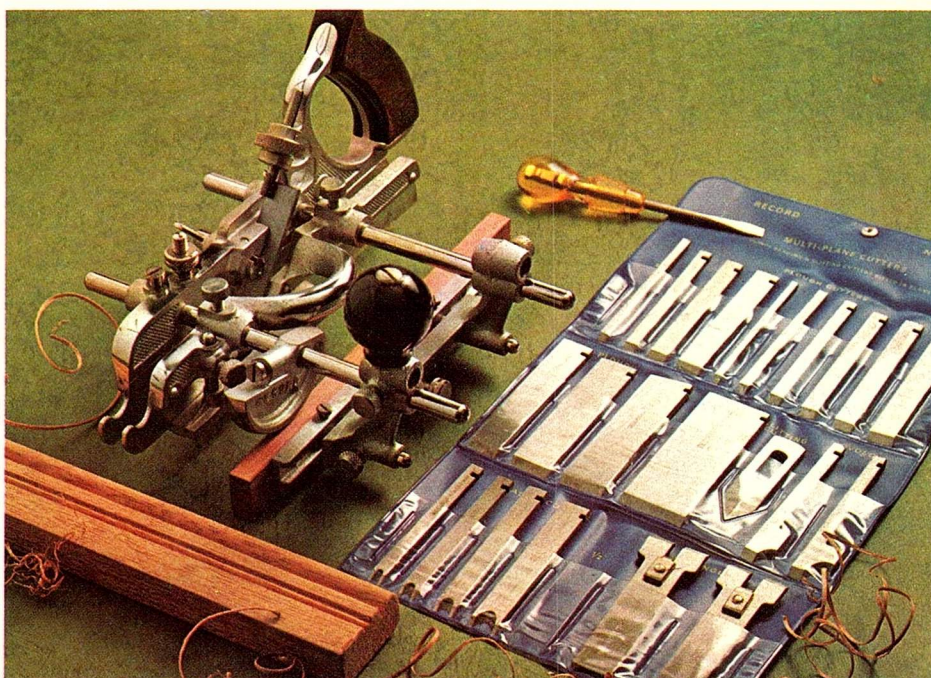
Multi-Plane

This is the ultimate in the Record line. It will do everything the Plough and Combination Planes will do plus a lot more. Twenty-four cutters are included with the plane.

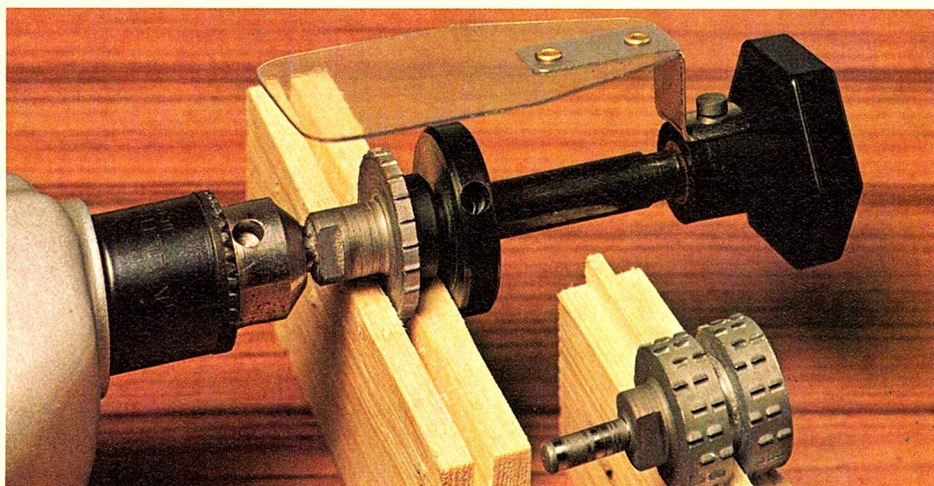
Ploughing, rabbetting, housing, tonguing, fillistering, beading (edge and center), sash moulding, and slitting can all be carried out. The Multi-Plane can also be fitted with special bases and matching cutters for hollows, rounds, and nosings.

Using the spurs fitted in the body and sliding section, cuts can be made across the grain. The plane is fitted with an adjustable fence and depth gauge, two sets of fence arms (short and long), beading stop, slitting cutter, sliding section depth gauge, cam steady and spurs for cross grain work. Packed in a wood box. Full instructions included.

109-0660 Record Multi-Plane



Power Planes



Tongue & Groove Kit makes a foolproof edge joint.

Professional woodworkers know that one of the strongest joints is the tongue and groove. Its extra gluing area and self-aligning properties make it perfect for joining boards edge to edge. These joints can be easily cut with this Tongue and Groove Kit.

With this kit and your electric drill you can make strong self-aligning joints. The kit comes with a tonguing and a grooving rasp, a guide ring, handle-shaft, safety guard, and full instructions. (The handle-shaft also works with all router rasps shown below!)

200-0340 Tongue & Groove Kit



Coastal Power Planes

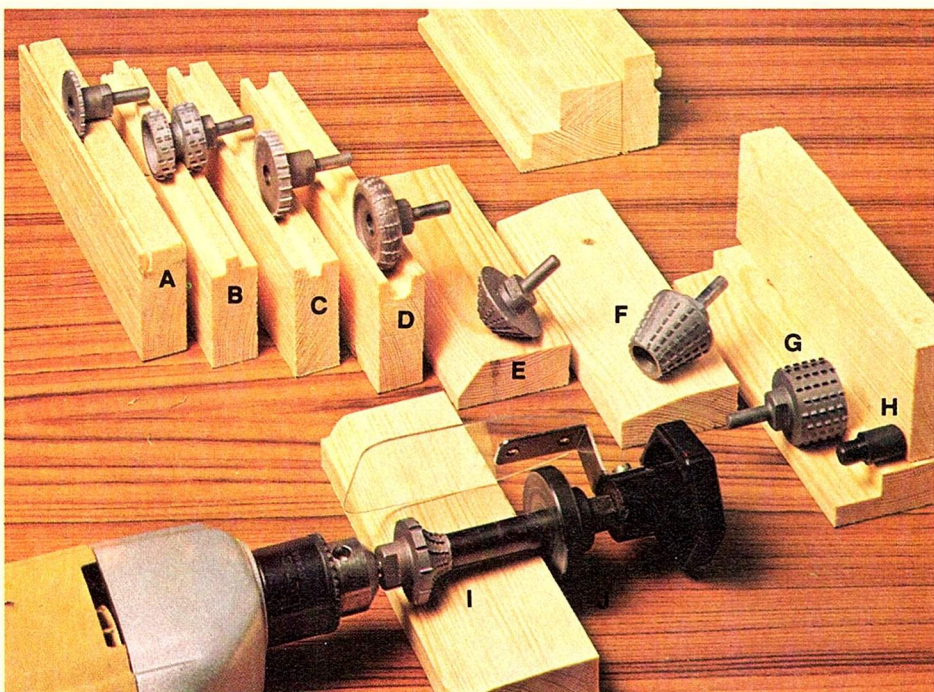
For planing, sculpturing, and shaping wood, plastic laminates, and veneers without splintering. The rasp like teeth of these tools work best at the higher speeds provided by a 1/4" rather than 3/8" drill. A washer "fence" is included as a guide when required. Depth control for door planing is readily handled with battens.

200-0160 1" Long Rotary Plane

200-0170 1-3/4" Long Rotary Plane

200-0180 1" Long Rabbet Plane

200-0190 2-3/8" Long Contour Plane



Coastal Router Rasps

These eight rasps, plus the rasp handle, two adjustable disc guides, your 1/4" electric drill and two-hand control will make perfect joints and mouldings easily. A pilot is available for free hand or drill press use. When the pilot is used, the handle is not.

A 200-0230 Narrow Slot Rasp (3/32" groove)

B 200-0270 Double Slot Rasp (1/4" tongue)

C 200-0240 Wide Slot Rasp (1/4" groove)

D 200-0220 Convex Rasp (3/8" wide)

E 200-0280 45° Profile Rasp (5/8" wide)

F 200-0260 75° Profile Rasp (1" wide)

G 200-0250 Heavy Duty Mill (3/4" wide)

H 200-0290 Pilot (for freehand routing)

I 200-0210 Concave Rasp (5/8" wide)

J 200-0200 Handle-Shaft

Small Planes & Shaves

From the chest of an old Shipwright

You may not realize it, but the work of a ship's carpenter is some of the hardest woodwork around. Because of the irregular angles and curves, every bit of ship board cabinetry has to be hand-fitted. That's probably why many years ago a ship's carpenter, on the St. Lawrence River, came up with this type of plane. The hardwood knob nestles in your palm. Your fingers naturally curl into the side recesses, which provide a comfortable grip for hours of precise, tireless planing. An American firm found this old design and developed three styles.

Smooth Plane

with a flat sole for general smoothing.

Scrub Plane

with a convex sole for planing hollows and removing material quickly (a special crosscut blade is available for this model).

Beading Plane

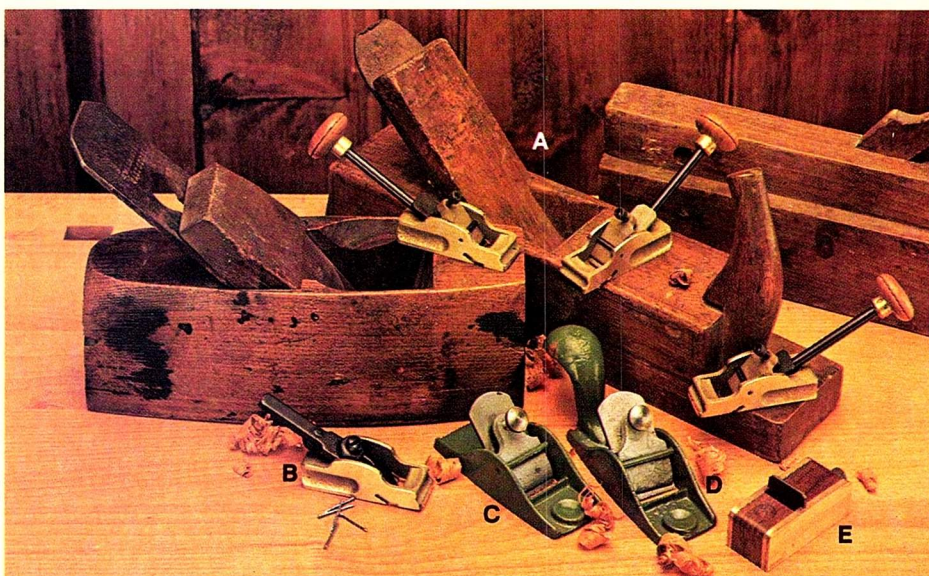
with a concave sole for special moldings, such as you will find in fine instruments. Each plane comes with a blade and, at extra cost, a rabbetting blade is available for precise working of rabbets and filisters.

No toolbox should be without one—but beware the urge to keep it on your desk!

- A 109-0020 Smooth Brass Plane**
- 109-1240 Scrub**
- 109-1270 Beading**
- 109-1310 Extra Blade**
- 109-1230 Rabbet Blade**
- 109-1260 Crosscut Blade**
(scrub model only)

Blind Nailing—no longer a mystery

A real cabinetmaker never used nails. Well, almost never. Sometimes there is



just no other way to hold a part in place. But how do you fill those ugly holes? If you're a real craftsman, you don't fill them; you cover them with a tiny curl of raised wood. This little brass tool, made by the same firm that makes those beautiful palm planes, raises a small curl. You nail under the curl and glue it back down. Now, tell me, where's the nail?

- B 109-1290 Blind Nailer**

Two Pocket Planes

Each 3-1/2" long with 1" cutters. These small trimming planes are designed for one hand operation. Their low pitch makes them suitable for end grain work.

- C 109-1140 Pocket Plane without handle**
- D 109-1130 Pocket Plane with handle**

Better and easier scraping

A chisel is to a plane as a scraper is to a scraper plane. A scraper blade is mounted in a wood block. The control so afforded is a delight. The results are magnificent.

The planes are made of cherry wood with heavy brass sides. Two sizes available.

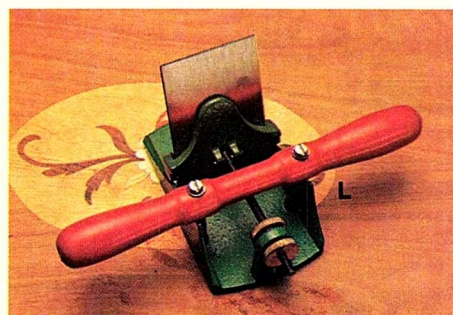
- E 109-0090 2-1/4" scraper plane**
- 109-1300 4" scraper plane**

Shaves or Spokeshaves

Concave Cutting Blade

10" long; 2-1/16" blade width.

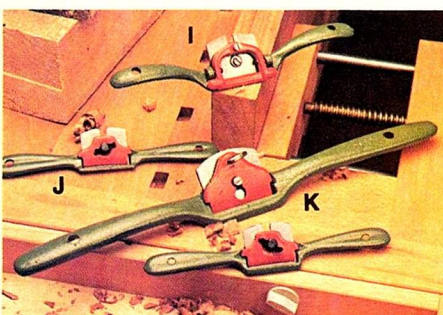
- F 109-0210 Concave Shave**



Scraper Plane

A scraper, of course, is the last tool used in the final cleaning up of most hardwoods, particularly curly and cross grained woods. This one, mounted in a plane shaped body, has a feature that allows the scraper angle to be adjusted. The plane body is 6-1/2" long and the blade's width is 2-3/4."

- L 109-1210 Scraper Plane**



Adjustable Mouth Shave

10" long; 2-1/16" blade width.

- I 109-0320 Adjustable Shave**

Lightweight Models for Light Duty Work

- J 109-0230 9" long; 1-3/4" cutter; convex sole**
- 109-0220 9" long; 1-3/4" cutter; straight sole**

Coopers Shave

18" long; 2-9/16" blade width for large work surfaces.

- K 109-1220 Coopers Shave**



Box Scraper

1-7/8" cutter; 13" long; oval wood handle. It was so named because its intended use was to erase marks and brands on boxes and casks.

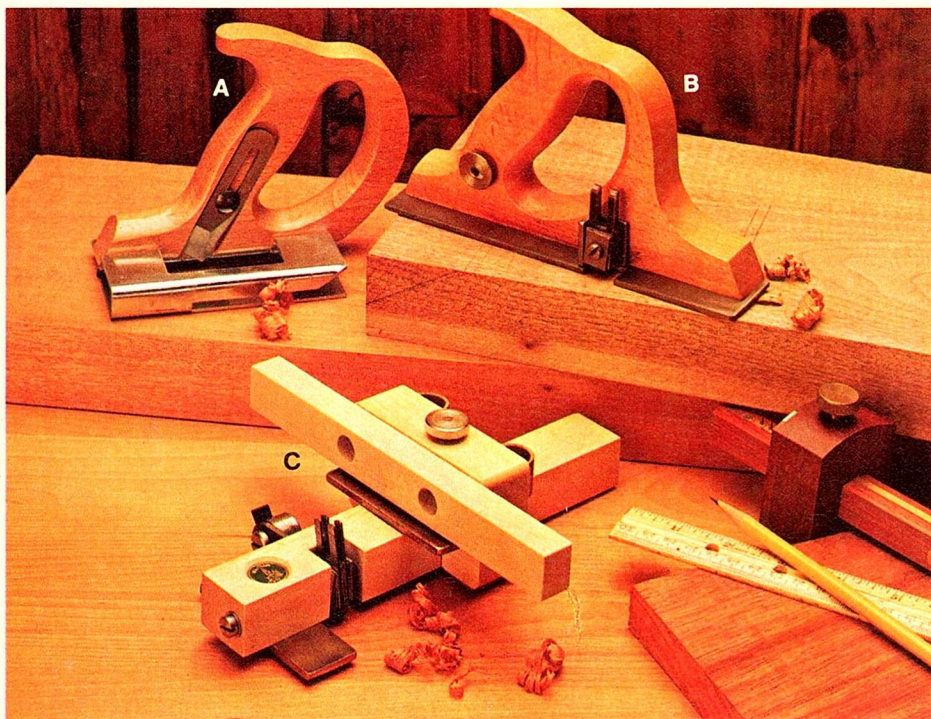
- G 109-1200 Box Scraper**

Combination Concave and Straight Blades

10" long; concave blade 1-3/8"; straight blade 1-5/8"

- H 109-0330 Combination Shave**

Scrapers & Veneering Tools



The Strip Cutter

Used with a straight edge, the strip cutter is a special purpose device for cutting the strips required for inlays with or across the grain. It can cut strips from 2mm to 8mm wide. An ideal companion for the Inlay Cutter.

B 106-0920 The Strip Cutter

French Block Scraper

A large scraping blade mounted in a polished beechwood handle. Permits heavy scraping to be done without burning the finger tips as with conventional hand scrapers. Sheffield steel blade 5-1/2" long. Handle 12-1/2" long overall.

D 109-0730 Block Scraper



Edge Trimming Tool

To insure a firm bond and clean finish, veneer should be applied so that it slightly overlaps the edges. The surplus is either removed laboriously by hand, or, rapidly and professionally with this tool which trims the veneer without tearing or splitting. Designed to cut to and fro with a double edged ground blade.

A 106-0930 Edge Trimming Tool



Inlaying

Inlaying is the flush insertion of geometric and decorative designs into the surface of veneers or solid wood. The steps involved are: removing the waste stock; cutting the strips; inserting the strips; finishing. Two tools are indispensable in this process: The inlay cutter and the strip cutter.

The Inlay Cutter

Ours is made of brass and hornbeam with curved and straight heads that can be guided along straight or curved edges. As the two cutting blades score parallel lines, the built-in chisel clears out the area between the scores. The only limit to your creativity is your own imagination. Two blades, shims and fences are included.

C 106-0910 The Inlay Cutter

The Old Fashioned Scraper—Still the best finishing tool if you know how to "sharpen" it.

A scraper edge has no bezel. Instead, it uses a sharp burr. The question is, how do you get the burr? First, the blade must be given a perfectly square edge by grinding or filing. It is then dressed with a fine India or soft Arkansas stone, or both. This exact edge must stand up to inspection under a magnifying glass. If you are satisfied, you are now ready to destroy this edge with a special burnisher and make a razor sharp burr. Once completed, you will own and cherish a finishing tool so useful you will wonder how you ever worked wood without it. This scraper works on the push stroke and will move chips so fine that it will not tear even curly or bird's eye maple. It can be used on curved or rounded surfaces. We are offering the burnisher that makes the burr after you prepare the blade.

E 103-0450 Burnishing Device
F 103-0400 Triangular Hand Burnisher
G 103-0390 Round Hand Burnisher

The Scrapers Themselves

H 109-1410 Set of Straight Scrapers
 4" X 2-1/2", 5" X 2-1/2",
 6" X 3"
I 109-1400 Set of Curved Scrapers
 Gooseneck, Round End,
 Straight



Hand Saws

Brass Back Saws



Can a backsaw really turn you on?

It can us. These superb backsaws, the other half of the Tyzack Non Pareil line, are as beautiful as they are functional. The glazed and highly polished blades are hardened and tempered, fully tensioned, and stiffened with a hand polished

heavyweight brass back that comes to you looking as if tender loving hands polished it for decades. The teeth are hand set and cross sharpened. The three polished brass screws in the equally polished beech handle lend an aesthetic

balance and, of course, serve a practical purpose too.

100-0110 *8" 20 Pts.

100-0770 10" 15 Pts.

100-0580 12" 15 Pts.

100-0590 14" 13 Pts.

* Dovetail Blade

Hand Saws



The John Doe Saw

Or, the saw of many aliases. Various called the Gent's Saw, Dovetail Saw, Beading Saw, Fancy Back Saw, Jewelers Saw, and lastly Tenon or Tennant Saw (the tongue of wood being the tenant of the mortise), it is, no matter what you call it, an indispensable tool. These 6" to 8" Tyzack-made small tenon saws have 15 finely sharpened points to the inch. As such, they are too coarse and too long for very small fine work but just great for cutting dovetails and small mitres and tenons. The turned beech handle offers a pleasant grip, and the brass back lends rigidity to the blade and pleasure to the eye.

- A 100-0540 6" X 1-5/8" wide
- B 100-0790 7" X 1-5/8" wide
- C 100-0550 8" X 2" wide

The Apprentices' Dovetail Saw

It's name almost speaks for itself. This dovetail saw was designed about 100 years ago for apprentices by their tutors. The Sheffield steel blade is brass backed and the open beech wood handle is secured by two screws. A veritable bargain. By Tyzack

- D 100-0780 8" X 2-3/8" wide: 15 teeth



Just the best handsaws made. Anywhere!

Tyzack, English saw makers since 1812, call them Non Pareil — and small wonder! The glazed and polished skew back blades are taper ground, made from nickel chrome alloy steel. Each saw is hardened and tempered and tensioned to withstand longitudinal stress. Teeth, of course, are hand set and cross sharpened. The handsome beech handle is almost as highly polished as the four brass screws that secure it to the blade. No Non Pareil saw leaves the factory without being meticulously examined by the saw stewards. No better saws made anywhere.

- 100-1240 20" 10 Pts. X-Cut
- 100-0760 22" 10 Pts. X-Cut
- 100-0350 26" 7 Pts. X-Cut
- 100-0750 26" 4-1/2 Pts. Rip

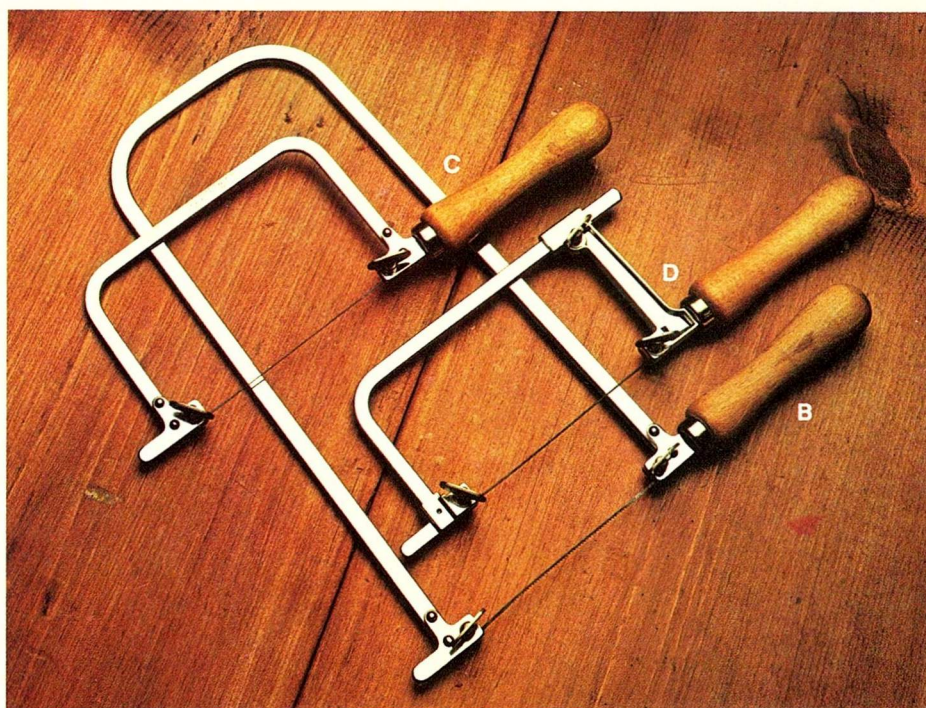
Coping, Piercing, Fret & Veneer Saws

A cabinet maker friend of ours says that "without coping, fret and piercing saws, one's workshop isn't." Now who can fight with that.

The coping saw can be angled to cut in any direction. Tension is applied to the frame merely by turning the hardwood handle. The 6-1/2" frame holding the 6-3/8" long blade has a throat depth of only 4-3/4". How then do you handle a project requiring you to enter 11"? Simple. Use a fret saw (sometimes but inaccurately called a deep throat coping saw) or scroll saw, as it is sometimes called. The throat depth is 11-1/2" and the blades are available in TPI from 16 to 32. Fret saw blades go from 0.06" (1.5 m.m) for the 16 TPI to 0.034" (0.86 m.m) for the 32 TPI and measure 5" in length. These finely toothed blades can cut curves without being angled. Blade tensioning is done by the spring of the frame. Thumb screw operated clamps located on the frame secure the blade. Unlike the coping saw, the teeth on the fret saw blades face down so that the saw cuts on the pull stroke.

The Piercing Saw is like a small coping saw with fret saw features. The non-adjustable model has a 3-3/8" throat, uses a 5" blade that is very, very narrow and thin with TPI from 32 to 80. The adjustable model has a 2-3/4" throat and can use blades up to 6" in length. The Piercing Saw is also called a Jewelers saw. It can use jewelers saw blades.

Coping and fret saw blades are generally used to cut wood, bone, vulcanite, fibre, ivory, horn, plastics, etc. Piercing Saw blades, on the other hand, are so thin they are intended to avoid waste when cutting gold, silver, and other precious metals. Will also work on copper, brass, aluminum, nickel, veneers etc.



- A 100-0700 Coping Saw
- B 100-0260 Fret Saw
- C 100-0720 Piercing Saw (non-adjustable)
- D 100-0270 Piercing Saw (adjustable)

Fret Saw Blades

packed ten pieces per size

	TPI	Width inches	Thickness inches
100-0280	32	0.034	0.011
100-0290	22	0.037	0.011
100-0300	22	0.039	0.014
100-0310	18	0.043	0.014
100-0320	18	0.047	0.014
100-0330	16	0.051	0.017
100-0340	16	0.055	0.020
100-1050	16	0.060	0.022
100-1250	Assortment 5 ea. Nos. 0280 through 0330		

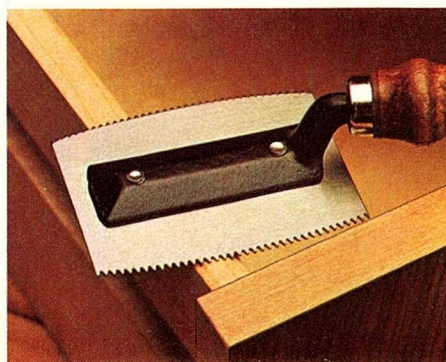
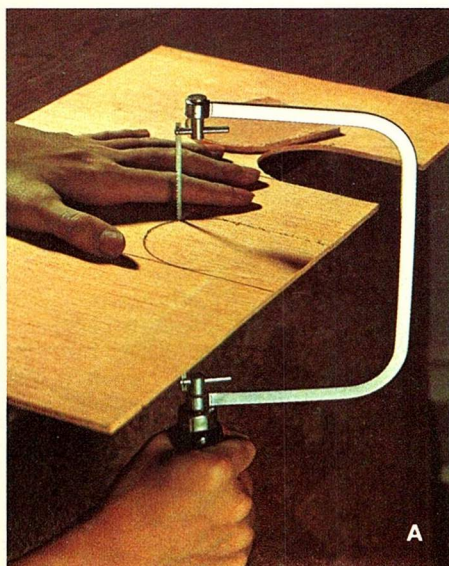
Piercing Saw Blades

packed ten pieces per size

	TPI	Width inches	Thickness inches
100-1260	80	0.018	0.005/0.007
100-1270	80	0.019	0.007/0.009
100-1280	60	0.021	0.007/0.009
100-1290	60	0.023	0.007/0.009
100-1300	60	0.025	0.010/0.012
100-1310	52	0.026	0.010/0.012
100-1320	44	0.027	0.010/0.012
100-1330	44	0.030	0.013/0.015
100-1340	32	0.032	0.013/0.015
100-1350	32	0.036	0.016/0.018
100-1360	Assortment 5 ea. Nos. 1300 through 1350		

Coping Saw Blades

100-1370	6-1/2" X 18 TPI X .054"	pkg. of 5
100-1380	6-1/2" X 15 TPI X .110"	pkg. of 5
100-1390	6-1/2" X Medium Cut	pkg. of 5
100-1400	6-1/2" X Coarse Cut	pkg. of 5



Veneer Saw

It is quite usual to overlay an inferior or uninteresting wood with a very thin layer of more decorative wood. This is not like wallpapering. The task is tedious and goes slowly. The veneer's saw has two curved serrated edges, one for cross cutting, the other to cut with the grain. These convex cutting edges are so designed as to avoid "digging in". The teeth are not set which makes it possible to use a straight edge when cutting veneers.

100-1220 2-3/4" Veneer Saw

Dovetail, Flooring & Pad Saws



The British have a 16th century word for it.

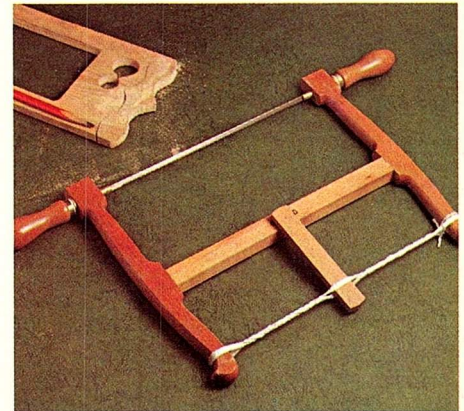
This is really our Keyhole Saw, but Tyzack lists it as a Pad Saw, 16th century language of unknown origin. The pad or handle is polished beech and is fitted with a ferrule in which there are 2 set screws. These hold the interchangeable blades which are manufactured of hardened and tempered Sheffield saw steel. Teeth are set and sharpened. They are quite useful for cutting out small shapes, curved work, and apertures such as, you guessed it, key holes.

- A** 100-0480 Pad Saw Handle Only
 100-0810 8" Blade—Specify 10, 14, or 16 pts.
 100-0830 10" Blade—Specify 10, 14, or 16 pts.
 100-0840 12" Blade—Specify 10, 14, or 16 pts.

Have you ever wondered how to start a cut in the middle of a floor?

There seems to be a special purpose saw for every special job. Our flooring saw is such. Teeth are cut along both front and back edges. The curved section of the saw enables one to saw across a particular board without damaging another. The straight rear teeth then make a kerf almost deep enough to penetrate the board. The saw is then pushed through and the cut is completed by using both edges of the saw. All teeth are hand set and sharpened.

- B** 100-0530 12-1/2" Flooring Saw — 8 pts. on top edge with 5-1/2 pts. interspersed with gullet form on lower edge



The 2000 year old man might have used a saw like this when he was a mere lad.

This is the hand saw of antiquity (post iron age) brought up to the 17th century. Generically, the group is called Frame Saws. The Bow (or Sweep or Turning) Saw is a small Frame Saw. The two side pieces (cheeks) hold the narrow blade in tension. The top ends of the cheeks are pulled together by a twisted cord and toggle stick. The stretcher rail is fitted between the cheeks with a mortise and tenon joint. The handles rotate through 360° permitting the frame to clear the workpiece or bench. This Bow Saw, with its beech wood frame, is used almost exclusively for cutting curves. If your workshop lacks a power band saw, you need this tool.

- 100-0680 12" Bow Saw
 100-0690 Extra Blade



Many craftsmen believe that all dovetail saws are equal. Our dovetails are, we think, more equal than the others.

They are made of "allerbeste Qualitat" Swedish steel with nicely turned handles. The teeth are sharpened and set. The Germans, unlike the British, are more conservative in the use of the stiffening material. Brass is virtually unknown. Iron or steel is the usual material and here we have polished steel.

Available in 10" blade lengths with straight, offset or reversible turned handles.

- A** 100-0470 Straight Handle 13 pts.
B 100-0450 Offset Handle 13 pts.
C 100-0460 Reversible Handle 16 pts.

Hand Saws & Lion Trimmer



A Tempest From Tyzack

Or so their new line of hand saws is called. They developed this medium priced range in the hopes of attracting more business. They certainly succeeded. The saws are very good looking. The beechwood handles are varnished and lacquer-coated; the screws are brass plated. Glazed and polished Sheffield steel saw blades are hardened and tempered. The teeth are precision cut and set.

	Size	TPI
100-1070	16" Hand Saw	7
100-1080	16" Hand Saw	10
100-1090	22" Hand Saw	7
100-1100	22" Hand Saw	10
100-1120	26" Hand Saw	7
100-1130	12" Back Saw	13



If this machine sold for \$100.00, every woodworker would own one.

Unfortunately, it's \$175.00. If you saw it work, saw it slice mitres with its razor sharp knife, you would gladly spend the extra \$75.00. There is absolutely no skill required to make a *perfect* mitre with unbelievable ease. Further, the cuts are glass smooth, requiring no sanding at all. For frame making, all you have left to do is glue and clamp.

Many other cuts are also possible with this machine: squaring; angle transferring; verticle cuts; compound beveling. Two adjustable gauges built into the machine can be locked to any angle between 45° and 90°.

For picture frame making, a special attachment is available that measures and mitres, at the rabbet length, exact duplicate opposite sides. Measuring device is useful for lengths 4" to 28".

- 100-0660 Lion Mitre Trimmer
- 100-0870 Extra Blade
- 100-0670 Measuring Attachment

Miter Boxes

Simple devices sometimes seem complicated

Whoever devised this ingenious sawing jig certainly did us all a favor. It's versatility is unmatched. Some of the joints it helps you make are: Lap Joints (Open or Closed); Mitre and Half Lap Mitre Joints; Bridle and Butt Joints; Dovetail and Half Dovetail Joints.

In addition, it facilitates angle cutting in selected degrees between 45° and 90°. Designed to take up to 2" X 4" for 90° cuts and 2" X 2" for 45° cuts.

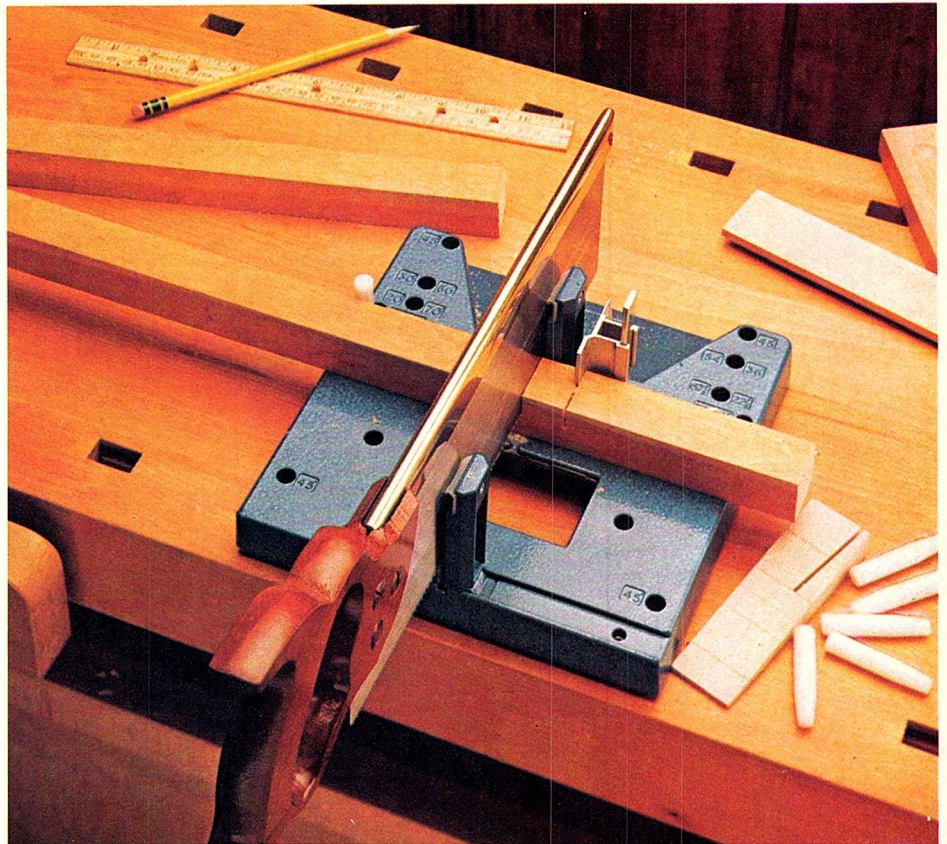
The jig is a precision made die casting with tapered holes to hold the nylon guide pegs. You will be astonished at its accuracy and its simplicity.

100-0200 Jointmaster Sawing Jig

The recommended Back Saw for the Jointmaster is the 12" length, our Cat. No.

100-0580 See Page 38

100-1130 See Page 42



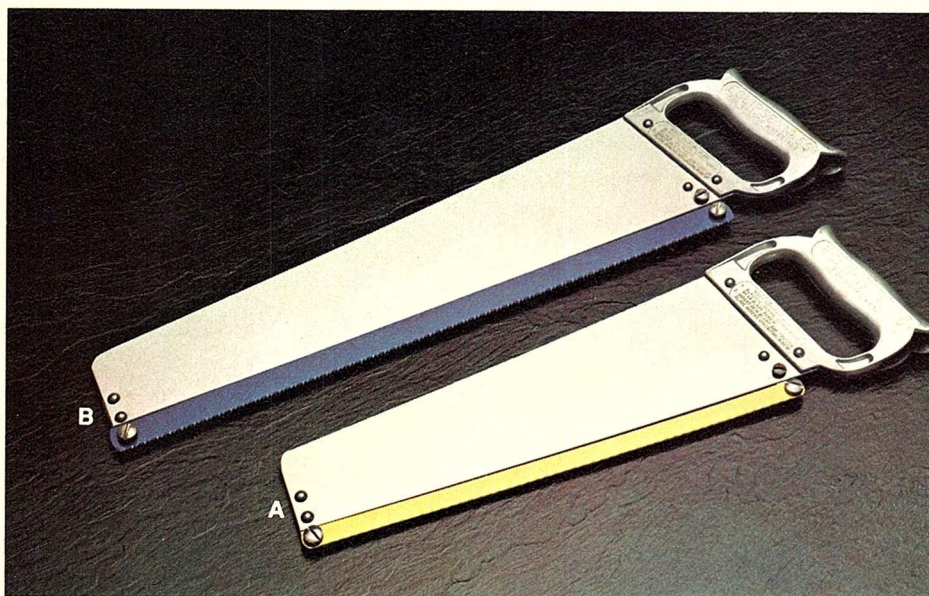
To cut perfect mitres— an extra set of hands.

This mitre box is special. Made of cast iron with guides that are precision milled, it guides your fine backsaw wobble free to cut perfect mitres. But the most important feature is the extra set of hands—two clamps that hold the work flat up against the fence, assuring accurate cuts every time. Cuts stock up to 2" wide at 45° and 90°. Saw not included. Complete instructions included. If you've never cut a mitre before, this mitre box will guarantee faultless results the first time.

100-0860 Square & Mitre Box



Specialty Saws



Even Rube Goldberg never piggy-backed a hand saw without teeth to a hack saw blade.

It does appear to be somewhat crude. But when you wish to cut through a large metal sheet, and don't want to be inhibited by the frame of a hack saw, you'll be very happy you own this contraption. Eclipse (Neill Tools) actually received a British patent for the design. They call it a Sheet Saw. What it does, and does real well, is to cut metal sheet, plain or corrugated, and whether of steel, brass, copper, aluminum, etc. The 12" blade will also cut the thinner sheets of asbestos, slate, and plastic. Another model, 100-

0740, uses 16" blades to cut asbestos cement, gypsum board, and other abrasive materials. Two blades, 6 and 10 TPI, are supplied with this model. All blades are replaceable. No. 100-0730 uses any standard 12" hack saw blade.

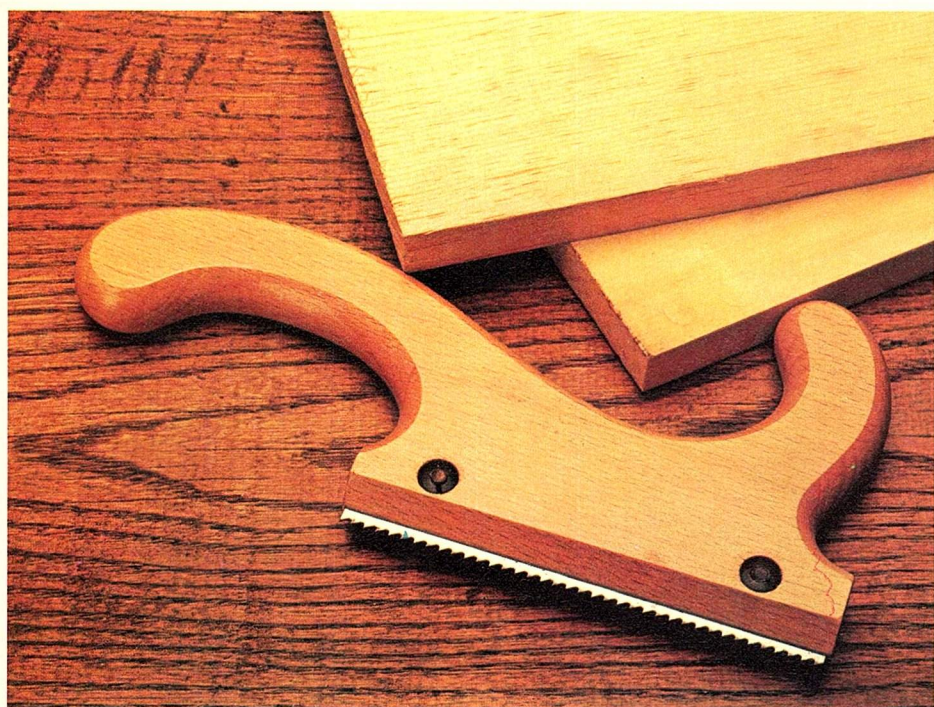
- A 100-0730 16-1/4" O/A Length with one 12" blade
- B 100-0740 20-1/2" O/A Length with two 16" blades
- 100-1030 16" X 6 TPI Blade
- 100-1040 16" X 10 TPI Blade
- 100-1050 16" X 14 TPI Blade



This is the last pruning saw you will ever need to buy.

The die cast handle won't rust, warp, split or break. The Xylan coated blade will neither rust nor deform. The fine lead teeth get you off to a quick and easy start at which point the coarse teeth take over for fast forward and reverse cutting. To handle awkward cuts, the blade adjusts to nine different positions. Weights only 12 oz.

- 100-0880 The Last Pruning Saw—19" overall, 15" blade

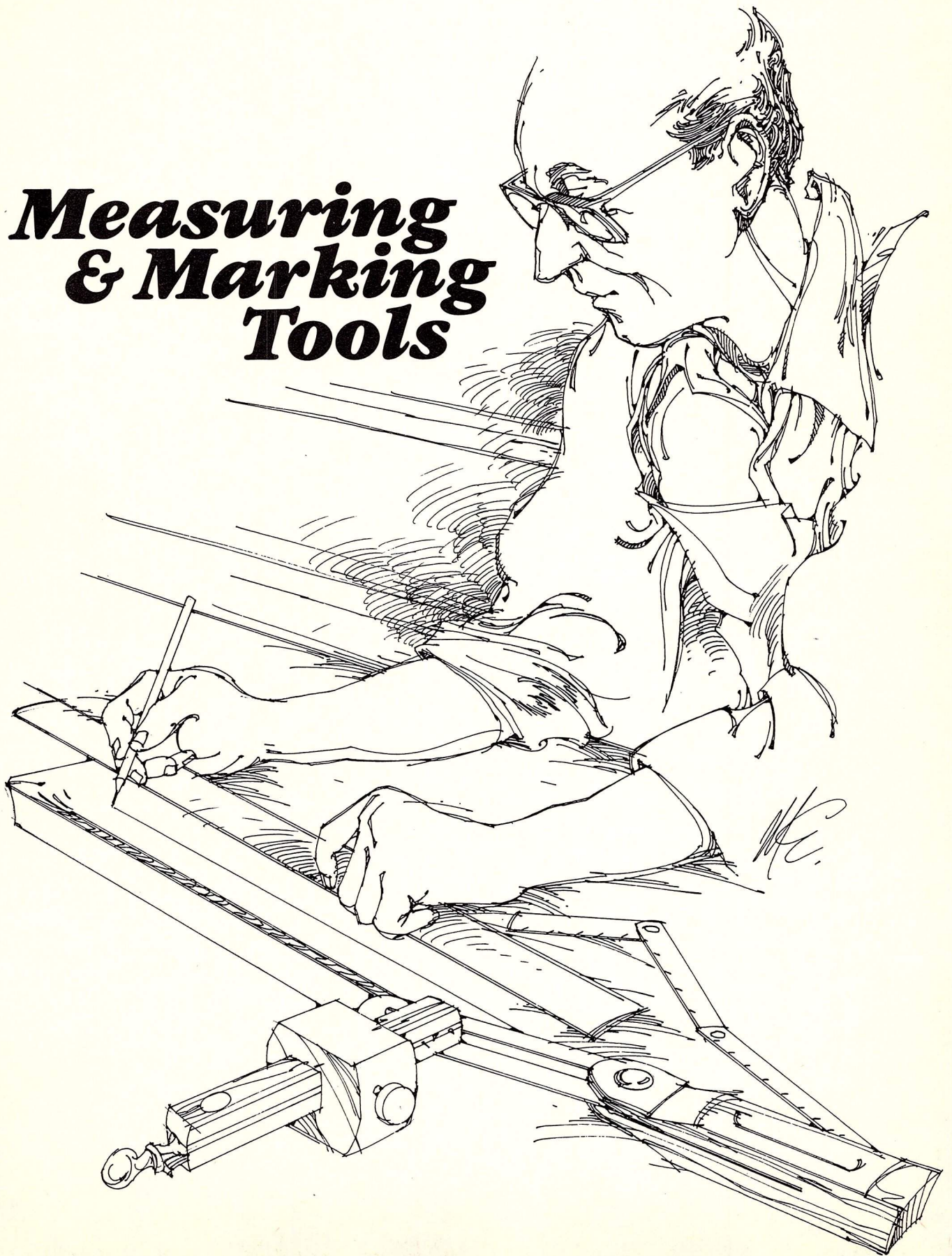


Build yourself a set of stairs

Before the advent of power machinery all carpentry was done by hand. This special saw is an example of one of those tools supplanted by progress. Called a Stairbuilders Saw, it was used to cut the sides of the housings in stringers before the waste was removed by chiselling or planing. Then the treads were fitted. Nowadays it is used primarily by cabinet-makers to make sliding dovetails and similar joints.

- 100-1230 Stairbuilders Saw

Measuring & Marking Tools



Measuring & Marking

Measuring and Marking Tools

Marking gauges are used to mark a line parallel to an edge. They consist usually of two parts: a fence and a 9 to 10 inch long beam or stem with a pointed steel pin at one end. The fence or head is fixed in position with a thumb screw. The tool is used by pushing rather than pulling and at a 45° angle.

Cutting gauges differ from marking gauges only in the substitution of a flat blade for the pointed steel pin. The blade, which must be kept extremely sharp, is secured in position with a wedge. Whereas a marking gauge is best used to scribe a line with the grain, the cutting gauge has its applications across or with the grain, particularly where a marking gauge might tear the wood fibres. In addition, the cutting gauge is very useful for cutting strips of wood veneer.

Mortice gauges are used to mark two parallel lines to show the position of a mortice and tenon joint. The construction is quite similar to the marking gauge except two pins are provided. One pin sits in a fixed position and the other in an adjustable slide. In some models there is

a simple pull slide; on others the slide is adjusted by a thumb screw mounted at the end of the beam. Usually, a third pin is secured to the underside of the beam so that the tool can also be used as a marking gauge. There are also variants to the usual pattern. Types commonly made on the European continent have two or four beams locked in the fence. Many gauges, of all types, are fitted with brass facing strips on the inside of the fence to reduce wear.

Squares and Bevels

Up to perhaps the middle of the 18th century, all woodworkers made their own squares of hard, well-seasoned wood. They made large L-shaped squares for testing and smaller squares for layouts, marking mitres, etc. Even as the London and Sheffield tool makers produced try squares with steel blades and fancy rosewood stocks, the wooden square continued in use and manufacture. We have some lovely examples in hornbeam illustrated herein, along with a fine selection of wood and metal squares.

The try square is used to mark a line at

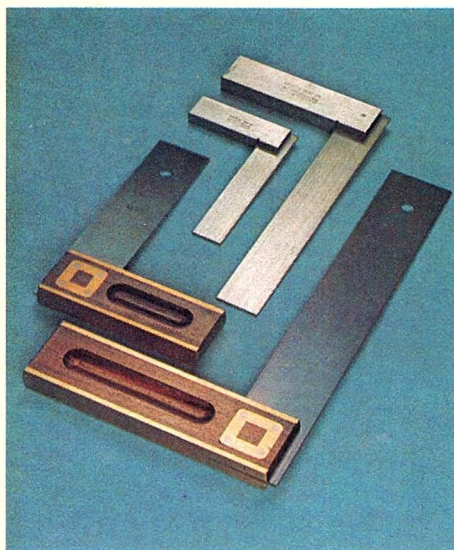
right angles to an edge and to check a corner for squareness. The tool gives an accurate 90 degree measurement on its inside and outside edges. On some models, a 45 degree angle is cut on the top inside corner of the stock.

Sliding Bevels

are useful to mark or check angles. They are sometimes known as "T" Bevels. The blade is slotted about half way down the middle so that both its length and angle can be changed relative to the stock. A locking lever or wing nut holds the parallel sided steel blade in position. This bevel must be used with a protractor to set an angle, or it can pick up a desired workpiece angle and transfer it elsewhere.

Mitre Squares

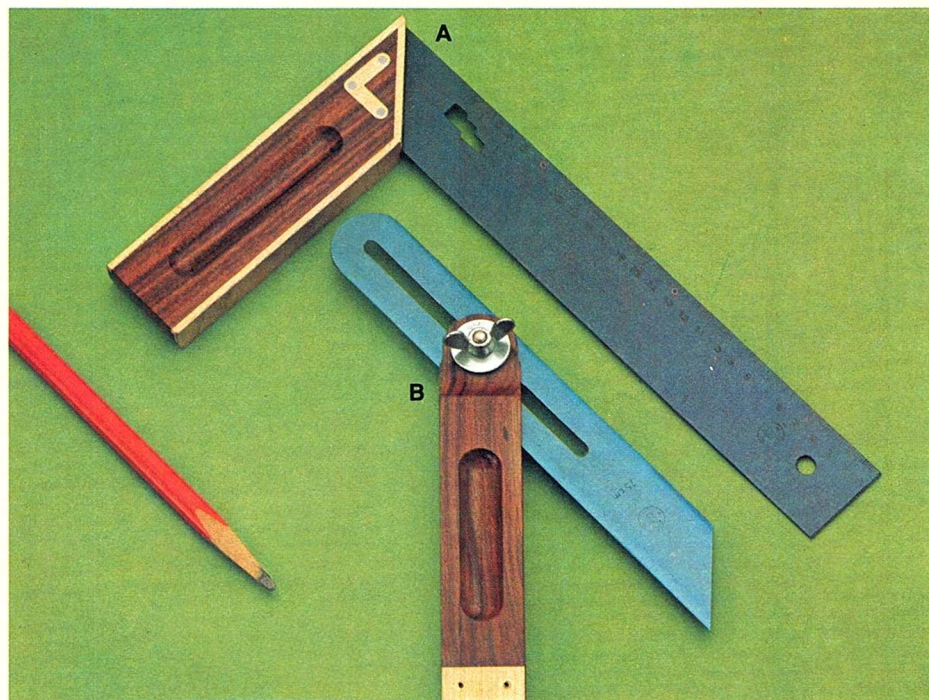
Somewhat like try squares except that the blade projects from both sides forming internal angles of 135 degrees and 45 degrees. With this tool it is quite simple to mark out both halves of a 45 degree mitre joint or to check the accuracy of the angle after the cut has been made.



German Precision Squares

These rosewood try squares with hard and resilient blue steel blades are dovetailed on both sides of the beam in brass to protect against wear. At the junction of blade and beam, four rivets under a heavy brass frame provide a permanent union. Finger holds on both sides. Tool is carefully varnished and a beauty to behold.

108-0870 6" German Precision Square
108-0880 10" German Precision Square



Rosewood Try/Mitre Square

Manufactured by the same company as the German Precision square, this model features a 45° mitre, and a special gauge to aid in setting out window frames. Blade: 12" long, blue steel, graduated in mm. Stock: 7" long, brass bound rosewood.

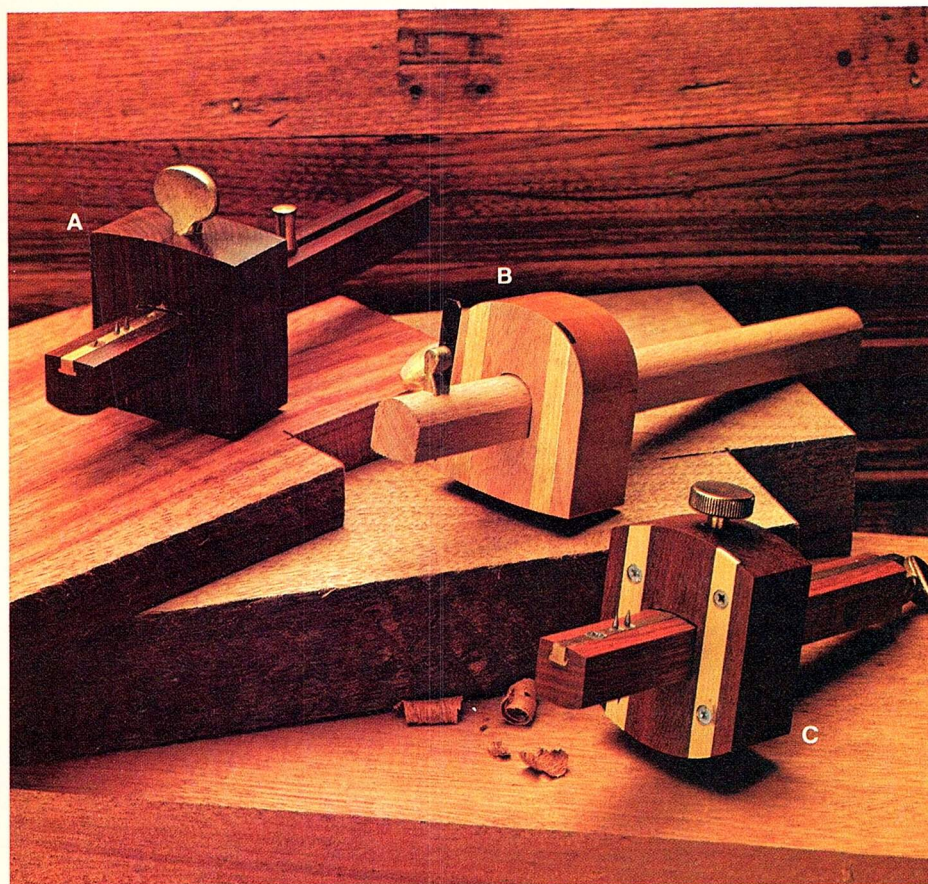
A 108-0860 Special Try/Mitre Square

Large Rosewood Bevel

The large size and comfortable finger grips of this bevel, insure a firm grip and aid accurate marking. Blade: 10" blue steel. Handle: Brass bound rosewood.

B 108-0940 Large Bevel

Marking Gauges



Rosewood Mortice and Marking Gauge

The rosewood model with brass slide and brass thumbscrew.

A 108-0930 Rosewood Mortice and Marking Gauge

Cutting Gauge

Beechwood beam and fence, brass facing strips, brass wedge and plastic thumbscrew.

B 108-0920 Cutting Gauge

Mortice and Marking Gauges

The basic model made of hardwood with brass facing strips and brass thumbscrew operated slide. Knurled screw is used to fix stock.

C 108-0430 Hardwood Mortice and Marking Gauge



Marking Gauge

Made of beechwood. Thumbscrew is plastic.

D 108-0590 Marking Gauge

Two Point Marking Gauge

Many two pointed marking gauges have both their points mounted on one side. This one has the points mounted on two independent beams permitting total flexibility. Made of hornbeam and supplied with an auxiliary fence for marking lines parallel to curved edges.

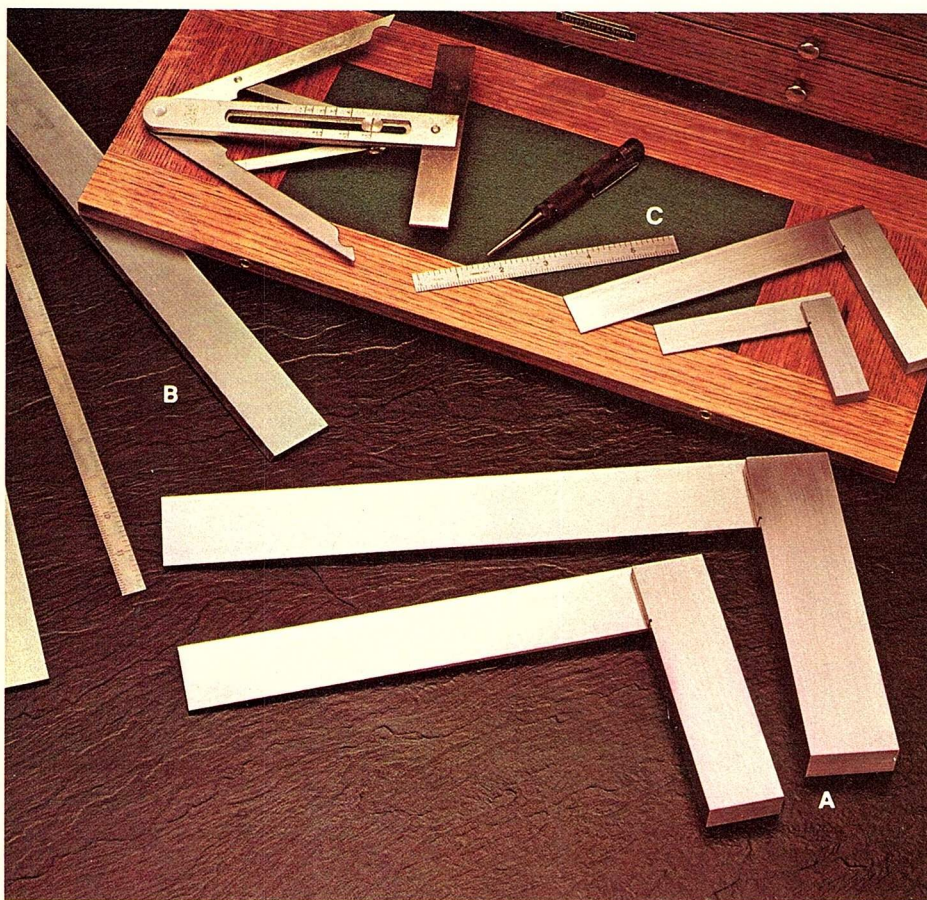
E 108-0320 Two Point Marking Gauge

Four Beam Marking Gauge

This is our favorite, a carefully varnished hornbeam marking gauge for tenons with a lignum vitae plate on the inside of the fence. A unique and beautiful tool. There are four beams, each inlaid with a black on white 4" graduated scale. Four separate brass screws fix the beams in place. Each side of the fence is numbered to assure the proper order for the four successive tracings.

F 108-0220 Four Beam Marking Gauge

Squares & Straight Edges



A Engineers Try Squares

Manufactured by one of England's finest precision tool makers. The blades are hardened and tempered and the entire tool is ground and polished. Do note the exacting specifications below. These are the ultimate in accuracy.

	Blade Length	Stock Length	Tolerances
108-0390	3"	3-1/4"	±.0004"
108-0400	6"	6-1/4"	±.0006"
108-0900	9"	9-1/4"	±.0008"
108-0910	12"	12 1-1/4"	±.0010"

Straight Edges

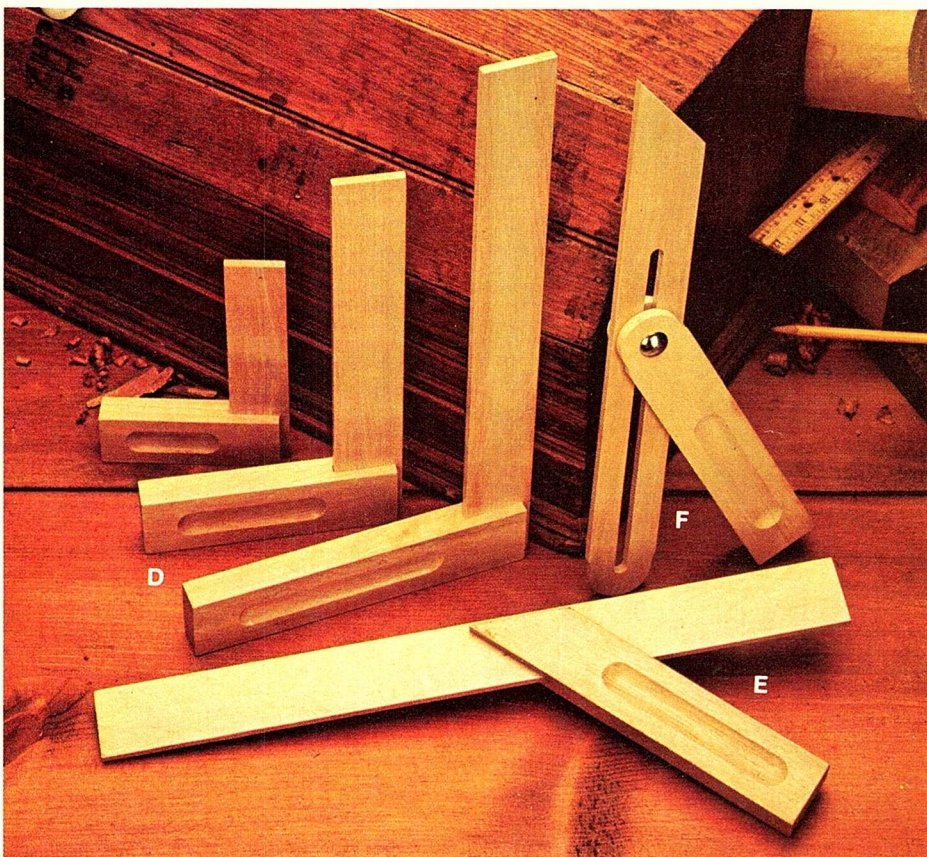
Parallel sided steel strips with one edge bevelled to about 30 degrees. The bevelled edge is used to scribe or cut against. Either edge can be used to test a flat surface or for ruling lines. Hanging hole incorporated. Width: 38 mm; Thickness: 2.9 mm; Material: Mild Steel.

- B 108-0630 24" Steel Straight Edge**
108-0640 36" Steel Straight Edge

Steel Rules

of rustless steel made by a leading British manufacturer of precision measuring tools. The finish is an anti-glare satin chrome which permits easy reading of the permanent black markings.

- C 108-0770 6" X 1/2" Steel Rule**
108-0250 12" X 1/2" Steel Rule



Hornbeam Try Squares

Absolutely square and handsomely executed. The entire tool is neatly varnished and accurately assembled. The finger holds on both sides of the stock, and the light weight in particular, make these squares very easy to handle. Hornbeam is used for its superior strength. Really lovely tools.

- D 108-0800 6" Hornbeam Square**
108-0810 10" Hornbeam Square
108-0820 14" Hornbeam Square
108-0830 *30" Hornbeam Square

*This model is fitted with a beam support post to keep the blade flat on the workpiece while marking.

Hornbeam Mitre Square

from the same manufacturer of the hornbeam try squares, and executed with the same care. First rate.

- E 108-0840 16" Hornbeam Mitre Square**

All Wood Sliding Bevel

Hornbeam sliding bevel with wing nut lock. The blade is unbreakable and will not split. Finger holds on both sides. Another fine tool from the manufacturer of the hornbeam try squares.

- F 108-0850 13" Hornbeam Sliding Bevel**

Trammels & Calipers



Dividers and Calipers

have been used, in one form or another, since Roman times. Dividers are used to scribe circles and arcs, to transfer or to take measurements and to step off divisions on a line. Calipers also transfer or take measurements and can also be used like go-no go gauges. The style we feature is the American pattern spring type with a quick-acting nut. When the legs are squeezed together, the nut comes out of contact with a bevelled closing washer. The two half sections of the split nut open out so the internal thread is clear of the screw and free to be moved rapidly up or down the adjusting screw. It sure is quick.

108-0680
108-0330
108-0690
108-0700

108-0710
108-0360
108-0720
108-0730

108-0740
108-0370
108-0750
108-0760

Divider

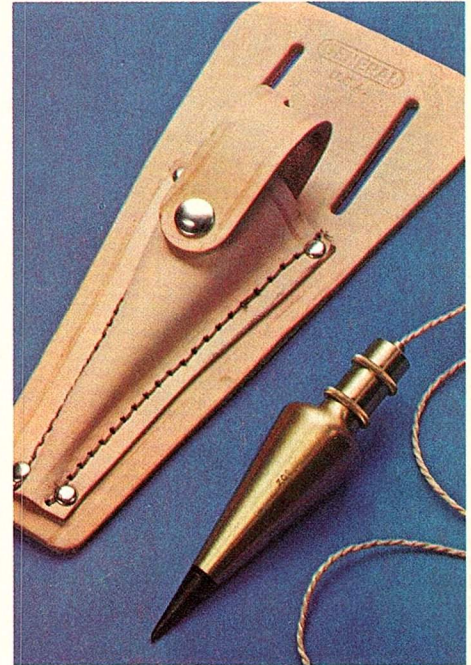
3"
6"
10"
12"

Inside Caliper

3"
6"
10"
12"

Outside Caliper

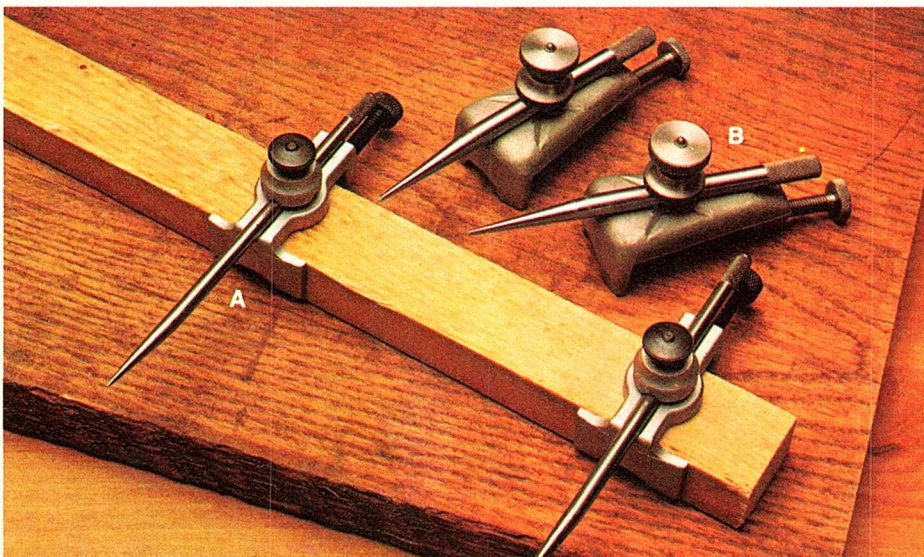
3"
6"
10"
12"



Solid Brass Plumb Bob

Has hardened steel replaceable point and a removable self-centering brass cord cap. Length: 4-1/4" Weight: 6 oz.

108-0520 **Brass Plumb Bob**
108-0530 **Leather Pouch for Above**



Trammel Heads

Often called a beam compass, are used in conjunction with a long wooden or metal beam to scribe large arcs and circles. The heads slide along the bar and can be fixed at any desired position with a screw. The points are hardened steel. One point can be replaced by a pencil. The heads can be used with beams from 3/4" to 1-1/2" wide. No beam is supplied.

A 108-0240 **Superior Trammel Heads**
B 108-0510 **Economy Trammel Heads**

Rules & Squares



Rosewood Sliding Bevel

Rosewood stock with heavy brass fittings, brass wing nut, and chrome plated blade distinguish this model.

108-0060 9" Rosewood Sliding Bevel

Steel Sliding Bevel

A nickel plated steel handle and a stainless steel blade distinguish this tool from all the others.

108-0450 8" Steel Sliding Bevel

Metal Try Squares

with 45 degree and 90 degree angles. The cast iron stock has a stove enamel finish. The steel blades are graduated on four sides. Inches in 16ths on one side; mm, figured every 10 mm, on other side.

A 108-0600 6" Metal Try Square

108-0610 8" Metal Try Square

Finest Rosewood Try Squares

brass faced on inside and two edges, with blued Sheffield steel blade affixed to the stock with three rivets in brass diamond pattern washers.

B 108-0260 6" Try Square

Boxwood Folding Rules

Mass production of contemporary brass mounted boxwood folding rules began only about 180 years ago. By that time, graduations in 16ths had been in common use for perhaps 50 years. Before that, readings were limited to inches and quarters; 8ths only came into use at the beginning of the 18th century.

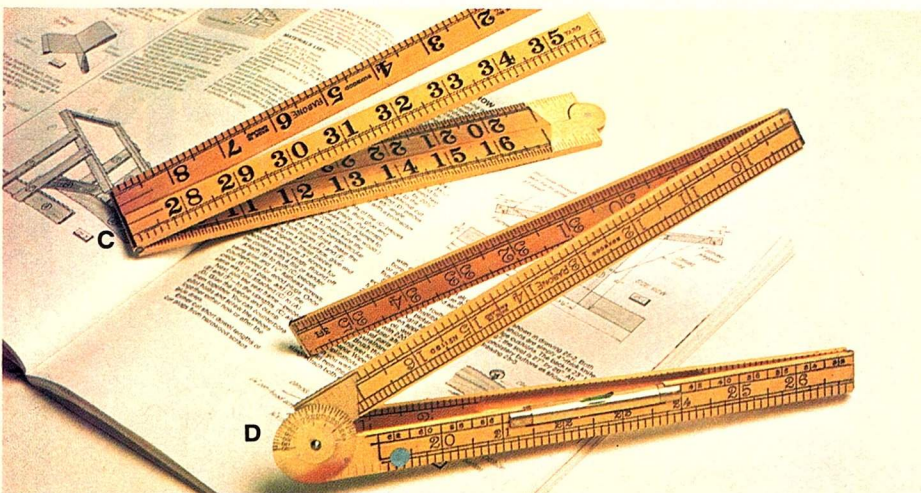
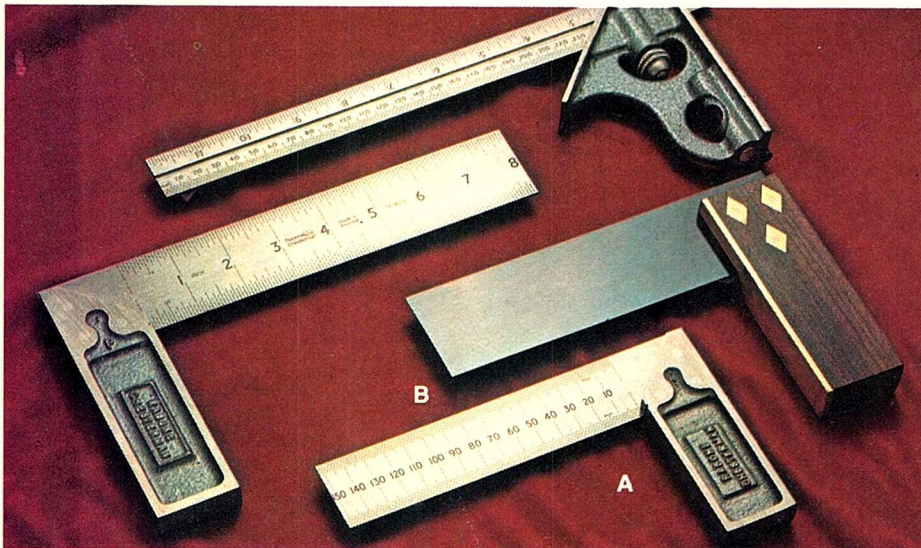
These high quality boxwood rules, made by Rabone Chesterman, have easy to read black markings that are protected by a hard wearing lacquer. The knuckle joints and brass center joints are specially tensioned to last the working life of the rule. Width of rules: 1-3/8".

C 108-0120 3 foot rule subdivided in 8ths, 16ths, 10ths, 12ths.

Clinometer Rule

3 foot length. Incorporates a spirit level and circle of degrees (0°-180°). Subdivided 8ths, 12ths, 4ths on one side; other side has 10ths and 16ths.

D 108-0130 Clinometer Rule



Squares & Level

A Hardwood Mitre Square

This model's hardwood stock is secured to the blade with four steel rivets and brass washers.

108-0280 10" Hardwood Mitre Square

B The 'Ever True' Try Square

This is probably the best try square made. The blade is L-shaped with one leg extending down the length of the hardwood handle. Four rivets secure the handle to the blade, thus preventing any movement and assuring maximum accuracy. Pre-tested twice before leaving the factory.

108-0190 6" "Ever True" Try Square

108-0200 9" "Ever True" Try Square

108-0210 12" "Ever True" Try Square

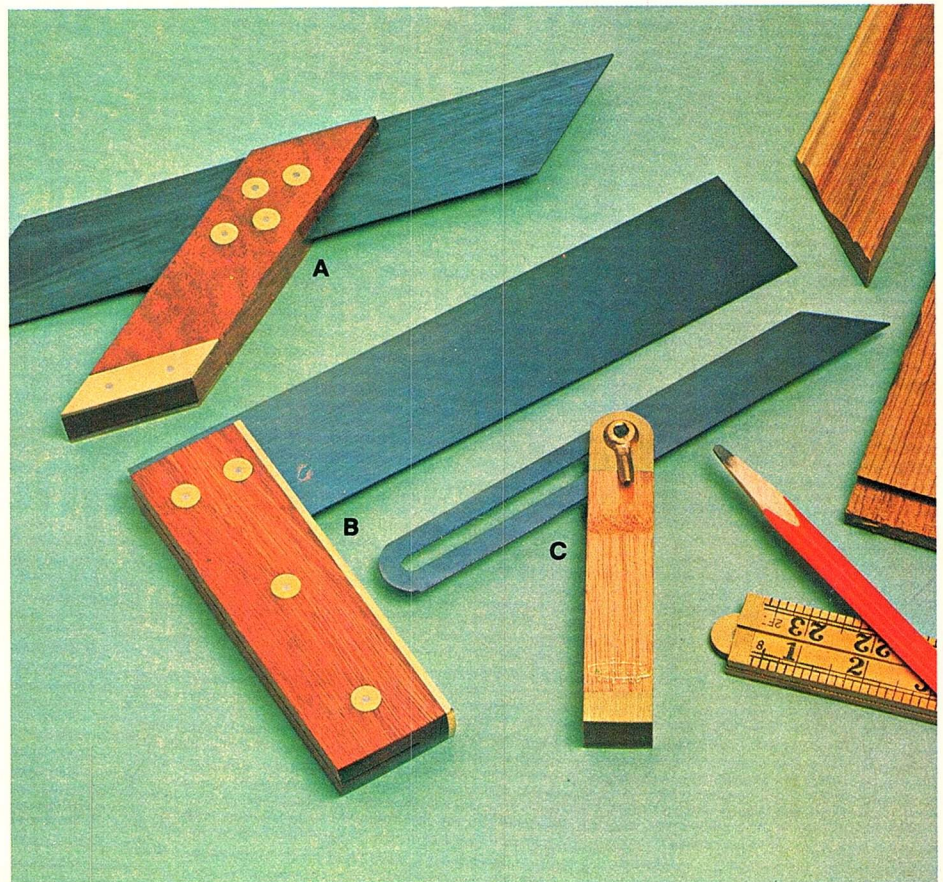
C Hardwood Sliding Bevel

Hardwood stock with brass protected ends and brass lever locking nut. Blued Sheffield Steel Blade.

108-0440 7-1/2" Hardwood Sliding Bevel

108-0410 9" Hardwood Sliding Bevel

108-0420 10-1/2" Hardwood Sliding Bevel

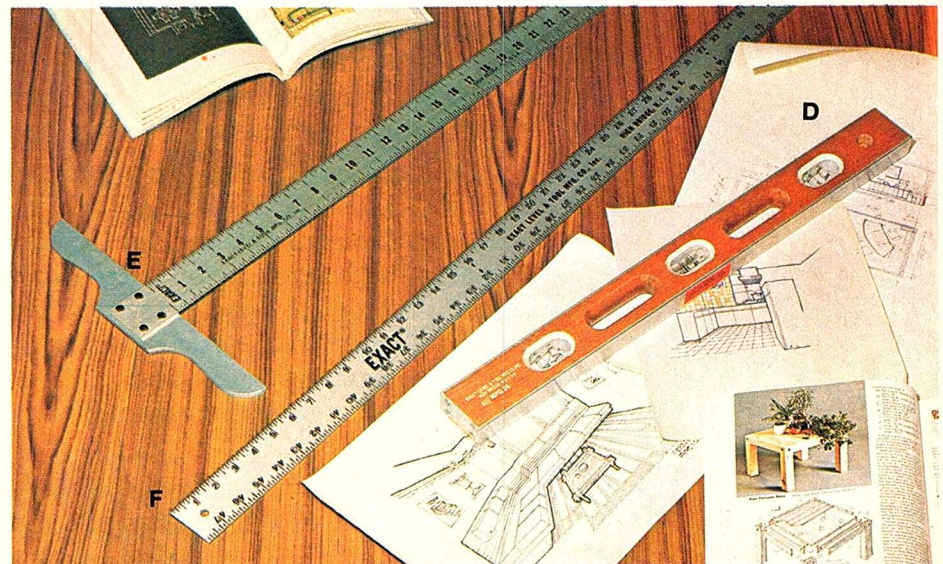


D The best level made should be your minimum standard

This is the Master Professional Level made by Exact. It is stronger, better, and more practical than any brass bound, aluminum bound, or wood level available anywhere. Here's why.

- The mahogany is reinforced with an aluminum I-beam. Thus, it cannot warp and is completely impervious to heat, cold, and moisture.
- Six tough, crystal clear, pyrex vials—4 plumbs, and two bevels—are set in shock-absorbing vial holders. They can not go out of adjustment. The vials have large bubbles and permanent black lines. They are very easy to read.
- The full-width aluminum edges are precision ground. They are absolutely parallel and flat.

108-0080 24" Master Level
Other sizes up to 78" available on application.



Can a workshop find happiness without a Straight Edge and a "T" Square?

It's hard to say, but we would think it would be better off with than without—particularly when you consider the merits of these lightweight aluminum tools.

E 36" "T" Square Blade

Made of high-temper alloy aluminum. The easy-to-read markings are graduated in 8ths on one edge and 16ths on the other. The blade is 2" wide and .081" thick. Four rivets assure permanent accuracy. The square weighs about 16 oz.

108-0090 36" "T" Square Blade

F Straight Edges

Parallel, accurate, smooth, square, and bend resistant. They will lie flat. Manufactured of 2" wide flexible aluminum. The large easy-to-read numbers can be read from either end for great convenience. Calibrations are in 8ths on one edge, in 16ths on the other.

	Length	Thickness	Weight
A 108-0660	24"	.081"	6 oz.
B 108-0670	36"	.081"	8 oz.
C 108-0100	48"	.125"	18 oz.

Tapes & Marking Tools



Copy Cat Contour Gauge

has 175 stainless steel rods that, when pressed against any contour, will immediately copy its shape. Makes it easy for you to transfer any pattern. Aside from woodworking, it is just super for fitting tile around pipe and other obstructions. The gauge measures 6" in length.

108-0070 Copy Cat Contour Gauge

Marking Knife

For marking across the grain and setting out workpieces. Plastic handle, sturdy blade.

A 106-0650 Marking Knife

Butt Gauge

Hanging a door isn't easy even with this tool, but it's a lot easier with than without. The gauge marks the position and indicates the thickness for butts (hinges) on doors and door jambs. It also positions locks and lock strikes. Not bad for marking a rabbet either. Provided with three separate adjustable hardened markers for hanging several doors without changing gauge dimensions.

B 108-0490 Butt Gauge

Make Your Mark

Fine cabinetmakers know that the most accurate mark is one made with a sharp marking tool. This is because the line left by a sharp edge is infinitesimal in comparison to that left by a pencil. Our Scratch Awl features a 3-1/2" alloy steel blade that extends through the handle. Heavily plated ferrule. Overall length: 6-1/4".

C 106-0710 Scratch Awl

Stair Gauges

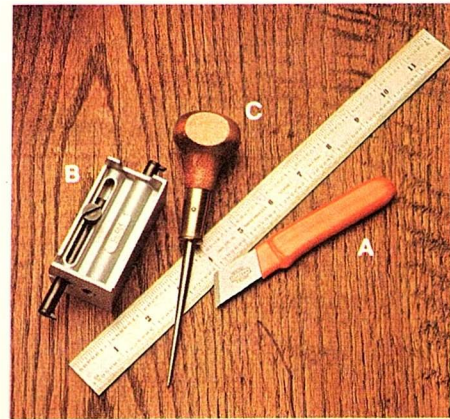
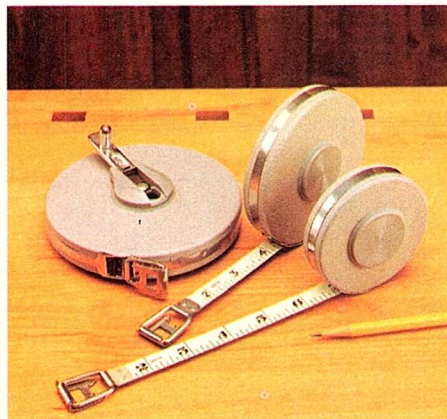
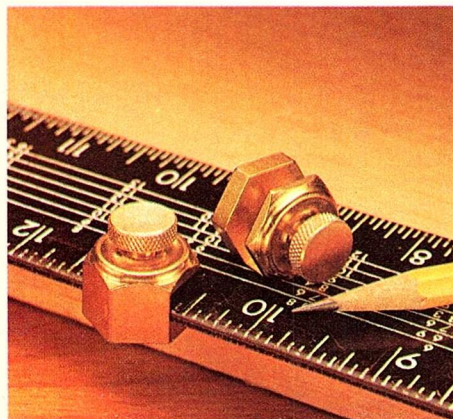
These simple brass stops attach to any metal rafter square to assist in making repetitive angle cuts on rafters, stair stringers, etc.

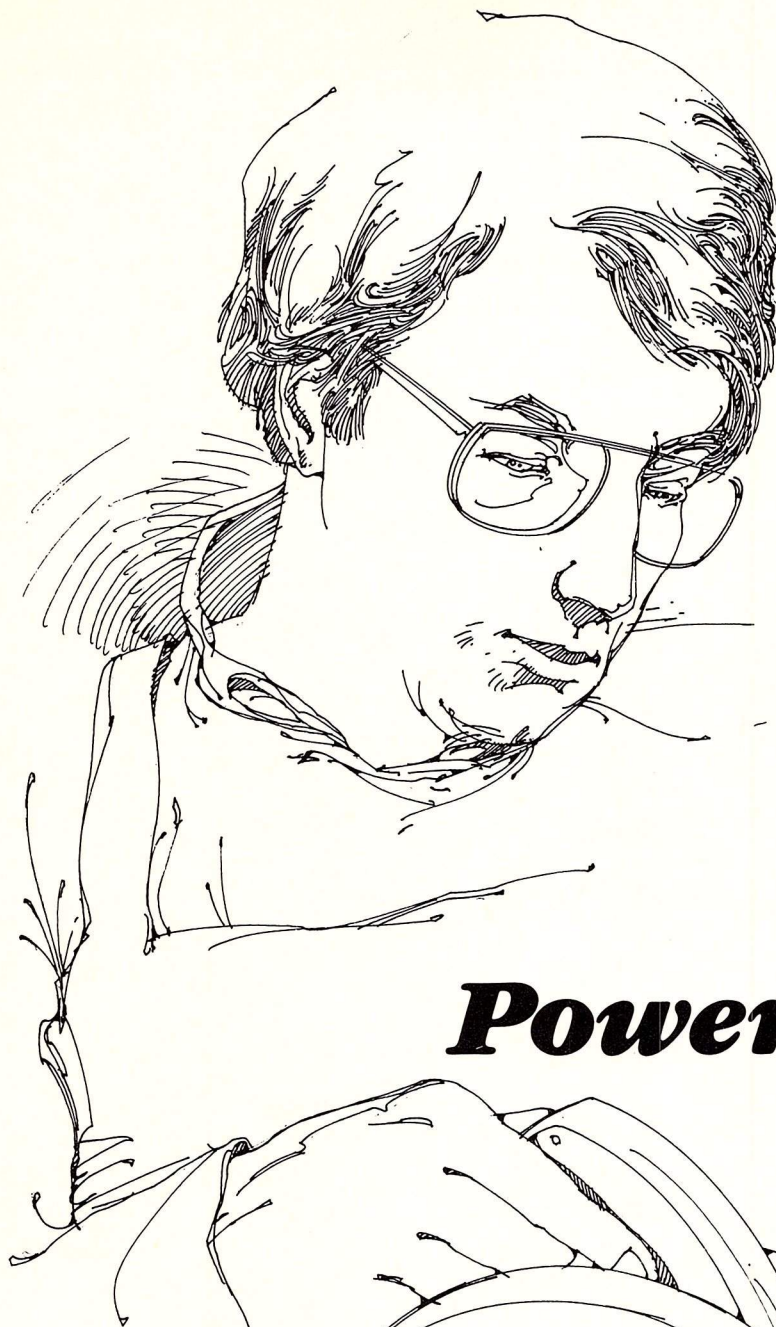
108-0480 Stair Gauges
Sold by the pair

Longer than arms reach

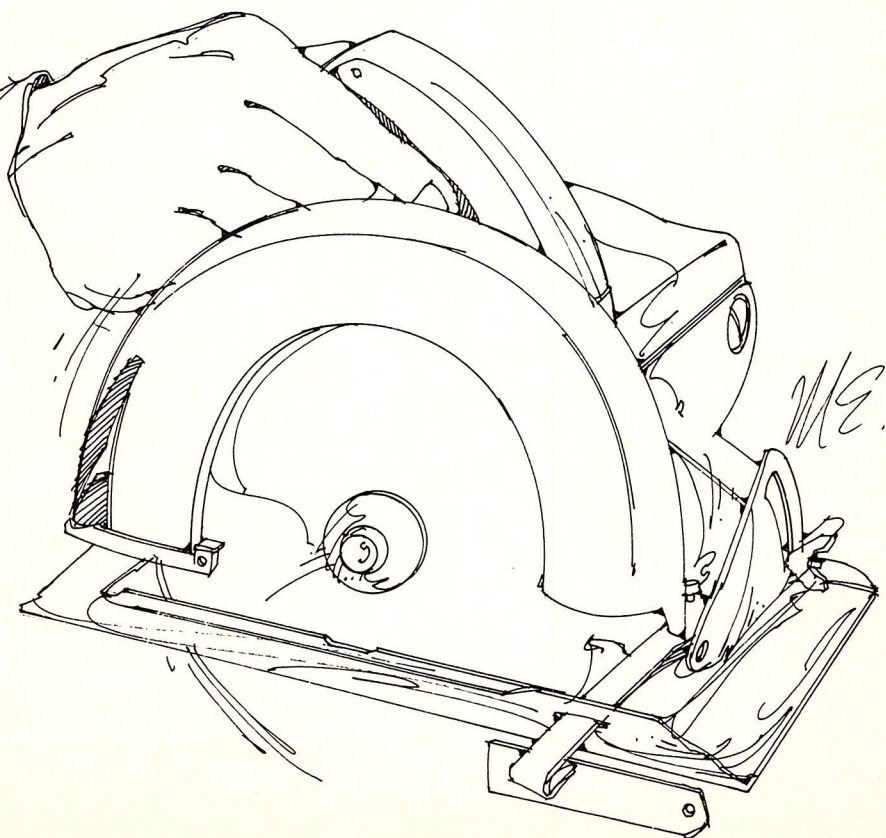
If you have occasion to measure a distance greater than arms length, these tapes are sure to be helpful. Long enough to layout anything from a kitchen to an entire house. The blades are white or yellow enamelled steel figured every inch in eighths. Cases are plastic coated steel.

108-0550 33 Foot Steel Tape
108-0560 66 Foot Steel Tape
108-0310 100 Foot Steel Tape





Power Tools



Power Miter Saw

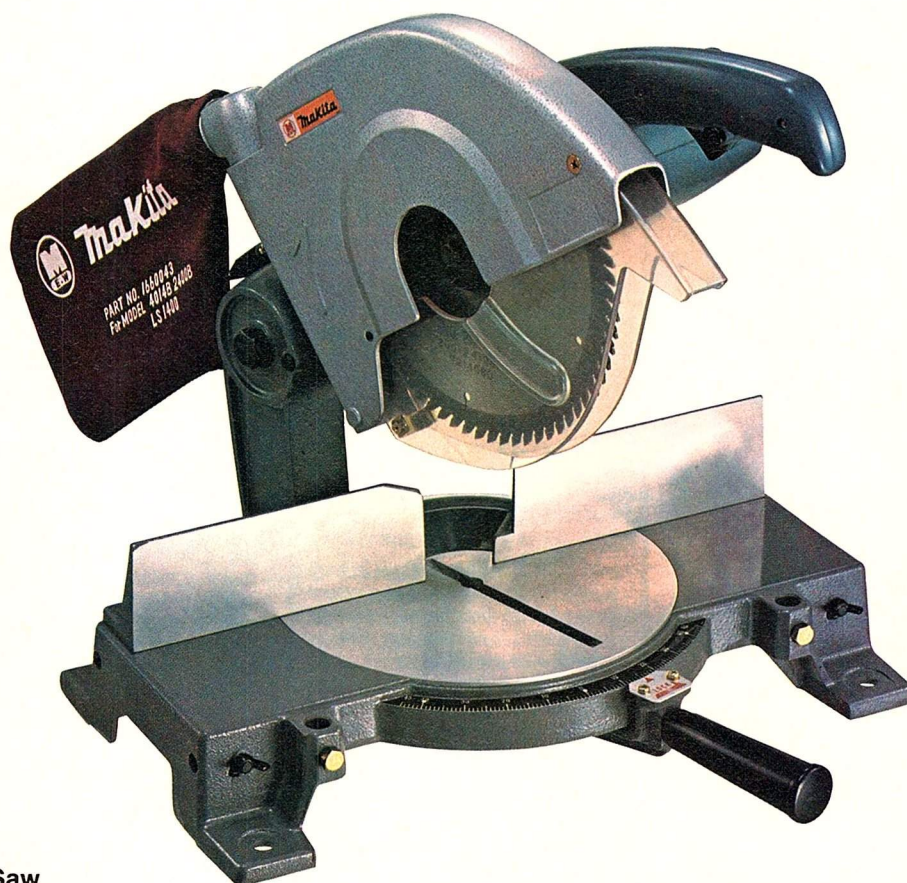
Power Tools

If we could find higher quality power tools than Makita builds, we would gladly offer them. So far, we can't.

The heart and muscle of any power tool is its motor. Makita, who have been manufacturing motors for 65 years, do not let a tool leave its plant unless the tool and its motor have been tested under power for 30 minutes.

For greater strength and heat resistance, Makita's motor's segmented copper commutator connections are carefully welded. Most other motors have soldered connections. The high-grade copper used in the precision wound armature is completely impregnated with a special varnish for protection against abrasives, moisture and possible burnout.

In the unlikely event of tool trouble or failure, return the complete tool to us or to the Makita service center nearest to you. Do not attempt to use the tool after partial failure and, in no event, attempt to repair the tool yourself.



10" Power Miter Saw

Considered indispensable by many building contractors, a power miter saw is an extremely useful power tool for anyone who does a great deal of repetitive mitering. The Makita Power Miter Saw is a rugged, heavy duty machine well suited to continuous use cutting wood, plastic or aluminum (with the appropriate blade). It cuts 45°, left or right, and can be easily locked at any intermediate angle. An electric brake stops the blade within seconds of releasing the safety switch. Double insulated. It comes with an owners manual, dust bag and blade wrench. No blade is supplied so that you can select the blade that best suits your needs.

Specifications:

Max. Blade Diameter: 10-1/4"
Arbor Diameter: 5/8" & 20mm
Cutting Capacity:
90°: 3-5/8" high X 4-3/4" wide
45°: 3-5/8" high X 3-5/8" wide
Amps (@115V): 12.0
No Load Speed: 4100 RPM
Net Weight: 55.0 lbs.

Because of size and weight restrictions, this item must be shipped by truck, freight collect.

- | | |
|----------|--|
| 205-0240 | 10" Makita Power Miter Saw |
| 205-0950 | Combination Blade
10-1/4" dia. 36 teeth |
| 205-0420 | Crosscut Blade
10-1/4" dia. 80 teeth |
| 205-0430 | Miter Blade (extra smooth cut
for wood)
10-1/4" dia. 100 teeth |
| 205-0910 | Miter Blade (for aluminum)
10-1/4" dia. 100 teeth |
| 205-0920 | Carbide Tipped Blade
(for aluminum)
10" dia. 70 teeth |
| 205-0930 | Carbide Tipped Blade
(for Wood) 10" dia. 70 teeth |
| 205-0940 | Vise Assembly - to firmly
clamp workpiece as it is
being sawn. |

Special Power Tools

Unique Power Tools

Actually the only unusual aspect of these three tools is their small size. In all other respects they are the equal of their larger counterparts in quality and durability. Made especially for specific tasks. We think you will find them a delight to use.

4-3/8" Circular Saw

This lightweight (less than 6 lbs.) saw is ideal for cutting thin stock. Cuts wood, plywood, aluminum or plastics with the appropriate blade. Blade is mounted on the left side for convenience in trimming. It is double insulated and features all ball bearing construction. Standard equipment consists of a combination blade, wrenches, rip fence and of course an owners manual.

Specifications:

Blade Diameter: 4-3/8"

Arbor Diameter: 20mm

Cutting Capacity:

90°: 1-1/4"

45°: 7/8"

Amps (@115V): 6.0

No Load Speed: 12,000 RPM

Net Weight: 5.9 lbs.

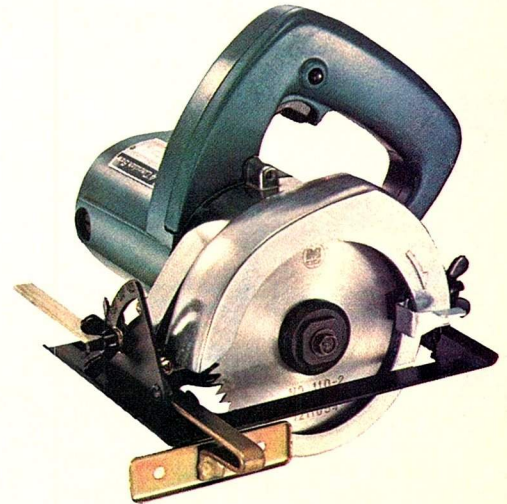
205-0320 4-3/8" Circular Saw

205-0370 Combination Blade
4-3/8" dia. 50 teeth

205-0330 Crosscut Blade
4-3/8" dia. 60 teeth

205-0350 Carbide Tipped Blade
for Wood 4-3/8" dia. 4 teeth

205-0340 Metal Cutting
(for non-ferrous metals)
4-3/8" dia. 110 teeth



Finishing Sander

No shop is complete without one of these little sanders. It is compact, lightweight and fits in the palm of your hand. 12,000 orbits per minute leave a virtually swirl free finish. Uses 1/4 sheet of standard size sandpaper. Double insulated.

Specifications:

Pad Size: 4-3/8" X 4"

No Load Speed: 12,000 OPM

Amps (@ 115V): 1.8

Overall Length: 4-1/2"

Net Weight: 2.4 lbs.

205-0310 Finishing Sander

Baby Sander

Despite its name, this tool does a full size job. After using it you'll wonder how you got along without it. With a 1-1/8" X 21" belt it sands or files all sorts of surfaces. Ideal for fitting, smoothing and finishing. The handle is removable for use in tight spots. Double Insulated. Comes with 10 assorted belts.

Specifications:

Belt Size: 1-1/8" X 21"

Belt Speed: 3280 FPM

Amps (@115V): 4.2

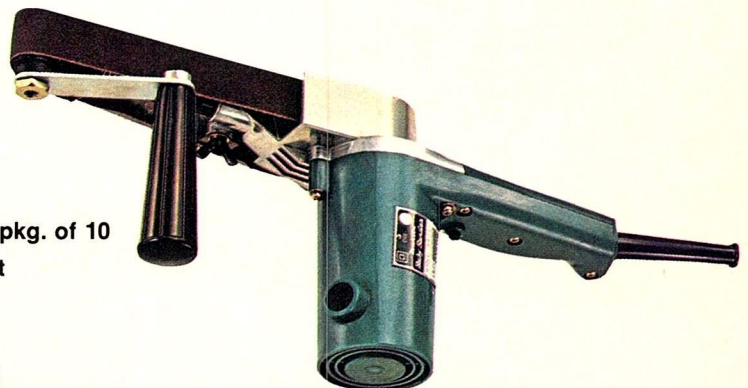
Overall Length: 14-7/8"

Net Weight: 4 lbs.

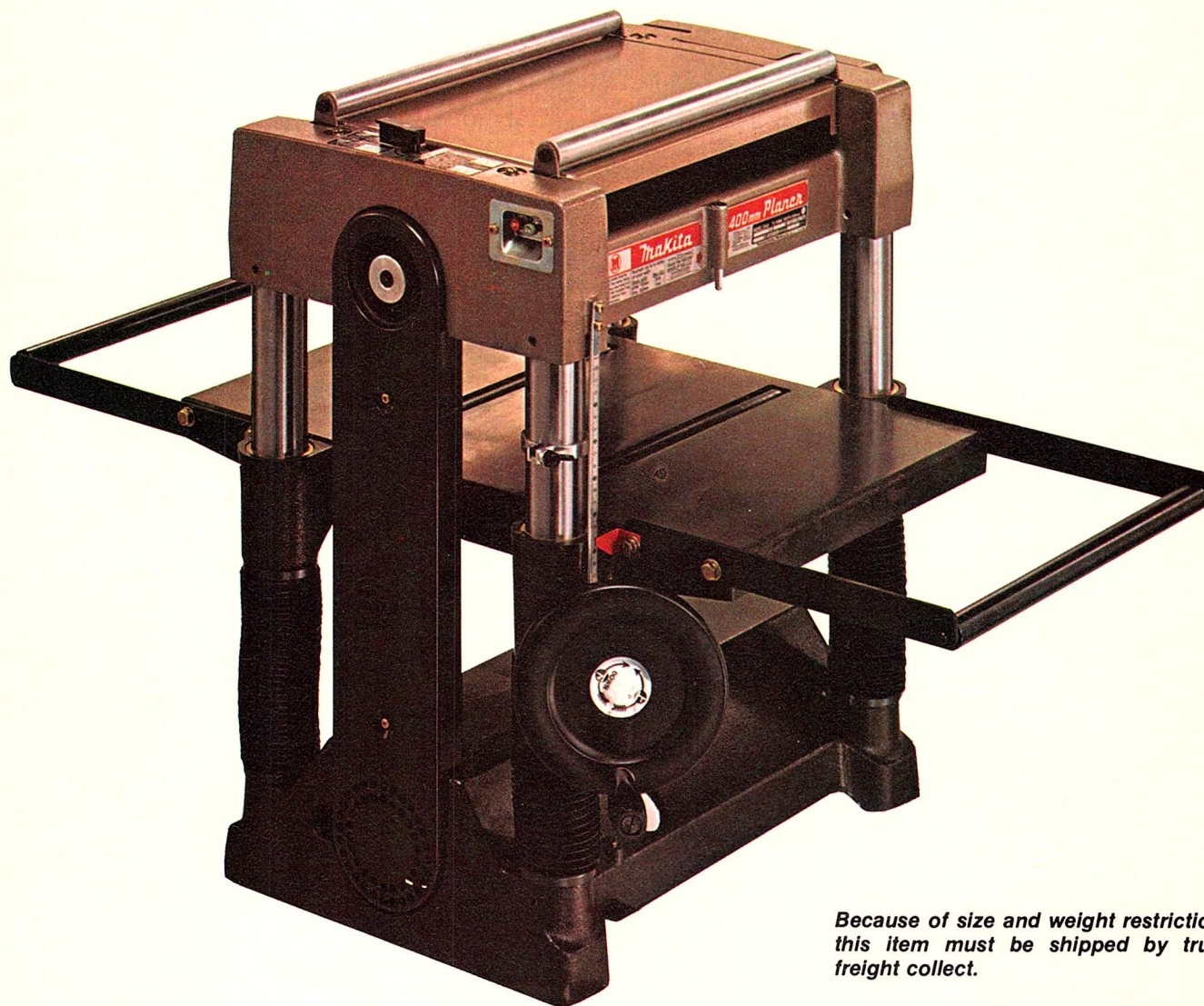
205-0300 Baby Sander

Extra Belts — pkg. of 10

	Grit
205-0820	40
205-0830	60
205-0840	80
205-0850	100
205-0860	120
205-0870	150
205-0880	240



15 5/8" Planer



*Because of size and weight restrictions,
this item must be shipped by truck,
freight collect.*

Makita Power Planer and Planer/Jointer

The heart of any successful woodworking project is a board planed true. While an experienced woodworker can quickly true a board by hand, he knows that a machine can do this job faster than he ever could. The Makita Planers can do this drudge work smoothly, precisely and tirelessly, leaving you time and energy to do those jobs that only a craftsman's hands can complete. We let the specifications speak for themselves.

204-0450 15-5/8" Planer

Standard Equipment

Socket, wrench, wooden leveller.

Motor: 2 HP 115V Single Phase

Amps (115V): 13

Speed: 6500 RPM

Dimension (WxHxL): 22-1/2" X 28-1/2"
X 40-3/8"

Net Weight: 254 lbs.

Planer

Max. Cutting Width: 15-5/8"

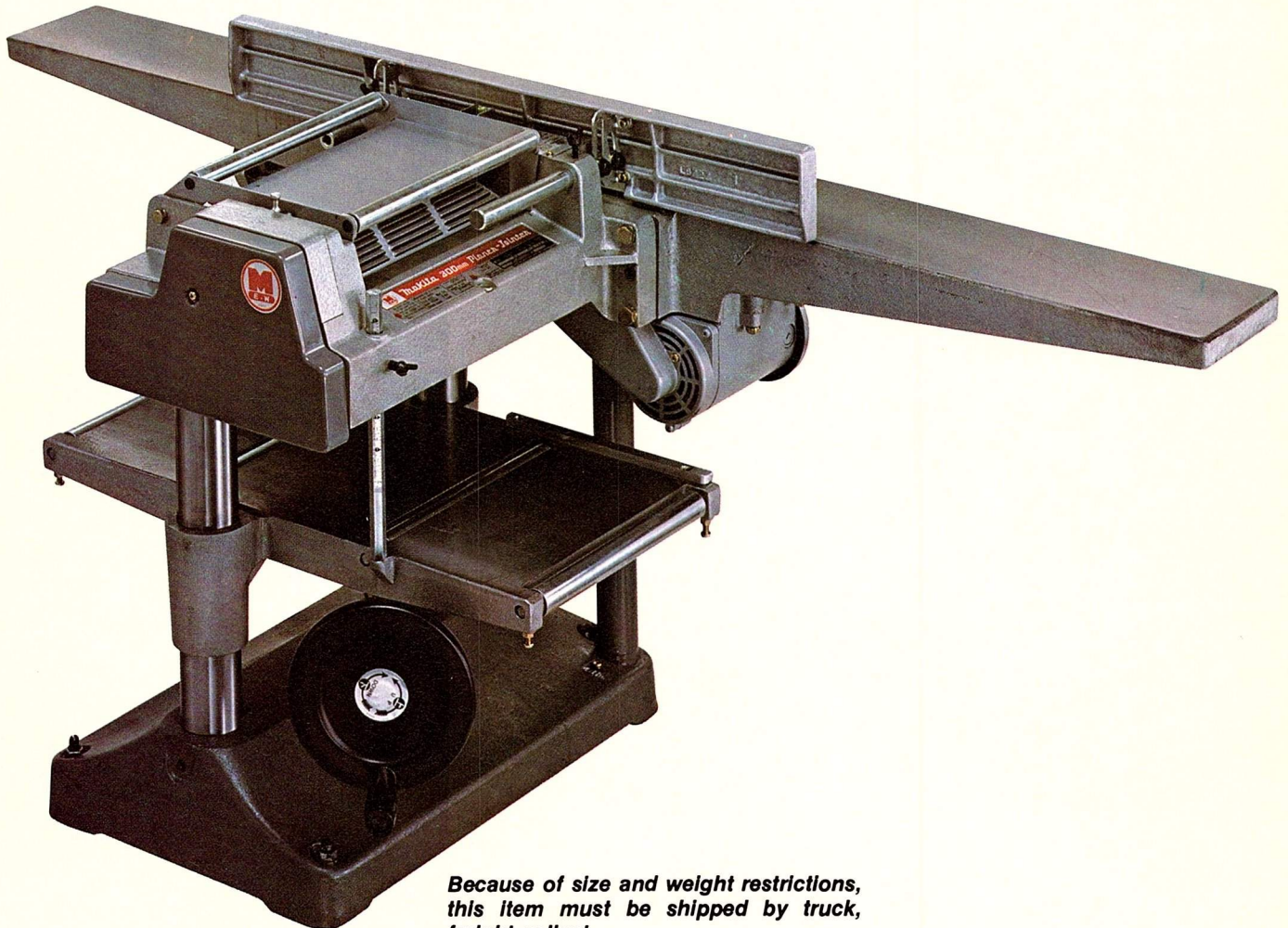
Max. Thickness: 1/4"-7-5/8"

Feed Rate: 29.5 ft./min.

No. of Knife: 2

Table Dimension (WxL): 15-5/8" X 23-5/8"

12" Planer/Jointer



*Because of size and weight restrictions,
this item must be shipped by truck,
freight collect.*

204-0290 12" Planer/Jointer

Standard Equipment

Blade gauge, sharpening holder,
spanner, wrench.

Motor: 2 HP 115V Single Phase

Amps (115V): 13

Speed: 7000 RPM

Dimension (WxHxL): 27-1/2" X 28-1/8"
X 59"

Net Weight: 275 lbs.

Planer

Max. Cutting Width: 12"

Max. Thickness: 1/4"-6-1/4"

Feed Rate: 28 ft./min.

No. of Knife: 2

Table Dimension (WxL) 11-3/4" X 23-1/2"

Jointer

Max. Cutting Width: 6-1/8"

Max. Cutting Depth: 1/8"

No. of Knife: 2

Table Dimension (WxL): 6-1/8" X 59"

Spare Blades

204-0310 Blades — High Speed Steel
for 12" Planer

204-0300 Blades — High Speed Steel
for 6-1/8" Jointer

204-0460 Blades — Carbide Tipped
for 12" Planer

204-0470 Blades — Carbide Tipped
for 6-1/8" Jointer

204-0490 Blades — High Speed Steel
for 15-5/8" Planer

204-0480 Blades — Carbide Tipped
for 15-5/8" Planer

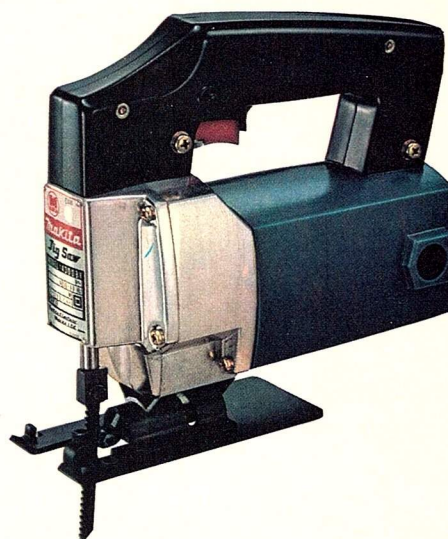
Power Saws

Variable Speed Jig Saw

A jig saw can be used to make straight or curved cuts, but with the Makita jig saw you can do a lot more. It features a Super Duty motor with a lockable, variable speed switch. You can cut virtually any material with it. It tilts 45° for bevel cutting. It has a built in dust blower and a universal blade clamp. Comes with 6 blades and a hex wrench.

Specifications:
Stroke Length: 1"
Strokes per minute: 0-3100 SPM
Amps: 3.5
Overall Length: 8-7/8"
Net Weight: 5.5 lbs.

205-0960 Variable Speed Jig Saw



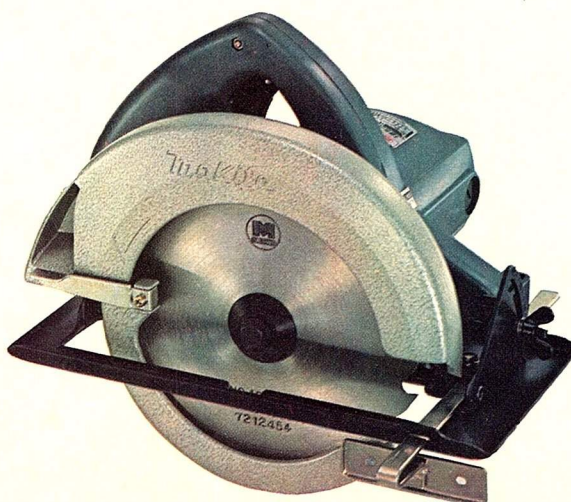
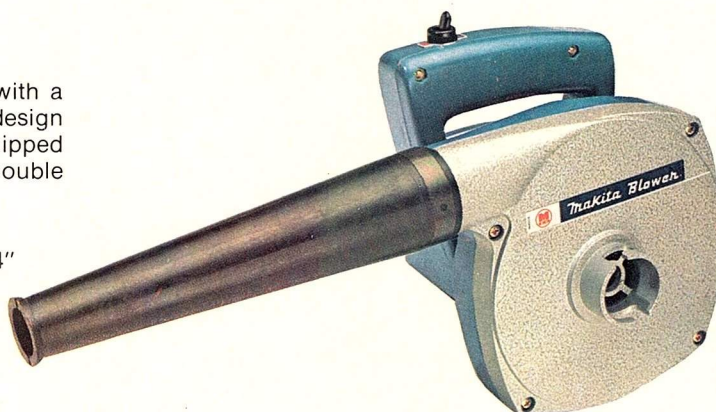
	TPI	Overall Length	Applications
205-0970	24	2-1/2"	Extra-fine blade for plys, light ferrous or non-ferrous materials up to 1/8".
205-0980	9	2-1/2"	Excellent for coarse cuts in wood, or in metal from 1/8" to 1/4".
205-0990	24	1-5/8"	Another extra-fine blade for clean cuts in light ferrous or non-ferrous material up to 1/8".
205-1000	14	2-1/2"	Very fast cutting of plys, masonite, plastics, formica, etc.
205-1010	9	2-1/2"	Ideal for wood cutting. Coarse blade for up to 2-1/4".
205-1020	9	2-1/2"	Excellent for curve cuts in wood especially. Blades sold in pkg. of ten each.

Workshop Blower

For blowing or suction cleaning with a dust bag. Lightweight, compact design weighs only 4.8 lbs. Comes equipped with a dust bag and nozzle. Double insulated.

Specifications:
Air Pressure Water Column: 11-3/4"
Air Volume: 23m 3/min
No Load Speed: 12,500 RPM
Amps (@ 115V): 3
Overall Length: 15-1/2"
Net Weight: 4.8 lbs.

205-0480 Workshop Blower



7-1/4" Circular Saw

Makita bills this as a Super Duty power tool. Indeed it is. It features a 13 ampere all ball bearing motor—enough power to handle the toughest woods. It comes with a combination blade, and blade wrench. Rip fence and additional blades available separately. Double insulated for safety.

Specifications:
Blade Diameter: 7-1/4"
Arbor Diameter: 5/8"
Cutting Capacity:
90°: 2-3/8"
45°: 1-7/8"
Amps (@115V): 13.0
No Load Speed: 5800 RPM
Net Weight: 11.5 lbs.

205-0290 7-1/4" Circular Saw
205-0890 Combination Blade
205-0900 Rip Fence

Routers

1-1/4 Horsepower Router

"D" handle design for comfortable continuous operation. Calibrated depth gauge for accurate adjustment of routing depth. Accepts 1/2", 3/8" and 1/4" shank bits. Double insulated. A heavy duty tool. Comes with 3/8" and 1/4" collets and wrenches.

Specifications:

Chuck Capacity: 1/2", 3/8", 1/4"
No Load Speed: 23,000 RPM
Amps (@ 115V): 8.5
Overall length: 7-1/2"
Net Weight: 8.0 lbs.

205-0270 1-1/4 Horsepower Router



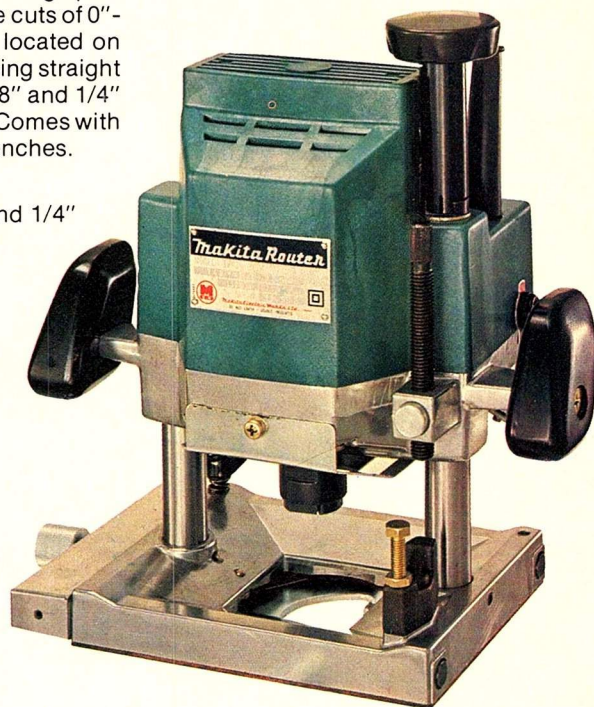
2-3/4 Horsepower Router

Features a super duty ball bearing motor with 2-3/8" travel. The unique design permits the router to make plunge cuts of 0"-5/8" by depressing the knob located on top. Square base for ease in using straight edge guides. Accepts 1/2", 3/8" and 1/4" shank bits. Double insulated. Comes with 3/8" and 1/4" collets and wrenches.

Specifications:

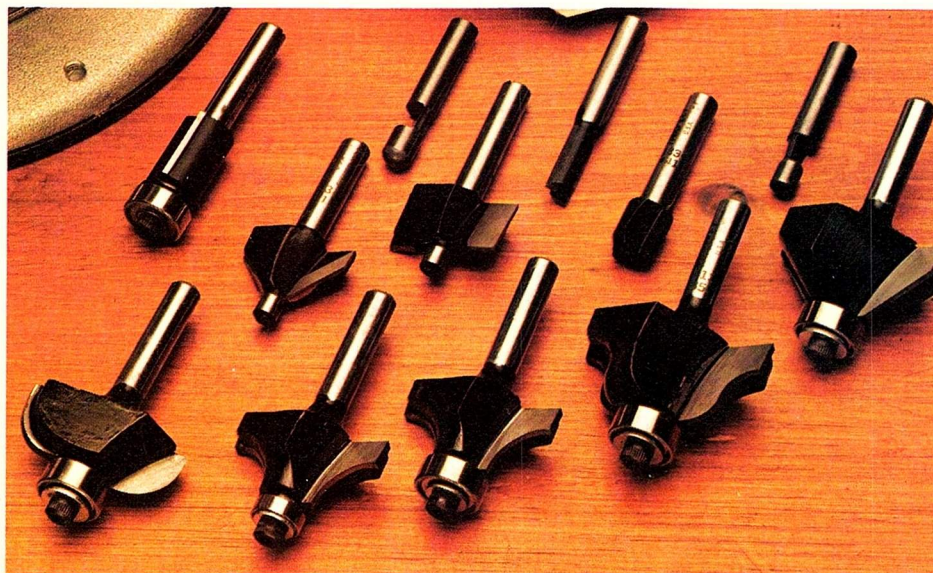
Chuck Capacity: 1/2", 3/8" and 1/4"
No Load Speed: 22,000 RPM
Amps (@ 115V): 12.0
Overall Length: 8-7/8"
Net Weight: 11.0 lbs.

205-0260 2-3/4 Horsepower Router



Router Bits Solid Carbide and Carbide Tipped

Our manufacturer has been in this business for over 25 years. They make router



bits and nothing else. Some of the things they do in their plant are quite unusual. *For example:* Quality Control: Every bit is inspected eleven times before it is completed. Tolerances: All shanks 1/4" diameter, centerless ground and held to a tolerance of $\pm .005$ ". Tempering: All bits are double drawn in the tempering process to give them maximum toughness, high tensile strength, and fine grain. Performance: We quote the manufacturer who states that his bits "can be relied upon to give three to four times the cutting performance of most ordinary routing bits".

200-1900 3/8" Cove Bit
200-1880 3/8" Beading Bit
200-1890 3/8" Rounding Over Bit
200-1910 1/4" Roman Ogee
200-1870 5/8" 45° Chamfering Bit
200-2020 5/8" Flush Trim Bit
200-2010 Router Bit Set—6 Pieces
1/4" Straight Bit, 45° Chamfering Bit,
3/8" Rabbeting Bit,
Combination 22° Bevel & Flush Trim,
Flush Trim, 7-1/2° Bevel Trim

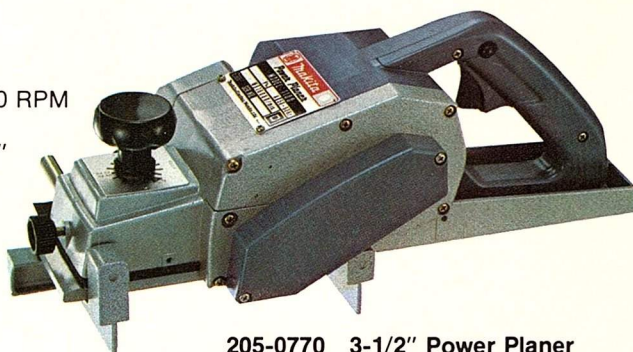
All are two flute carbide tipped except flush and 7-1/2° Bevel Trim, which are solid carbide.

Portable Planer & Sanding Machines

Hand Power Planer

Most jobs done with hand planes and some jobs done on a power jointer can be as easily accomplished with a portable hand power planer. The power planer can do the job faster than hand planes and, unlike heavy power equipment, it is portable. Makita's 3-1/4" Planer features all ball bearing construction. It is ideal for surface and edge planing and, with optional bevel guide, 0°-45° bevel planing. It comes complete with blades, blade gauge, screwdriver, sharpening holder, socket wrench and guide rule. Double insulated.

Specifications:
Planing Width: 3-1/4"
Planing Depth: 1/8"
No Load Speed: 16,000 RPM
Amps (@115V): 6.8
Overall Length: 16-3/8"
Net Weight: 10.8 lbs.



205-0770 3-1/2" Power Planer
205-0780 Bevel Guide
205-0790 Straight Guide
205-0800 Blades — High Speed Steel
205-0810 Blades — Carbide Tipped

Belt Sanders

Nearly every woodworking shop has at least one belt sander. Here we offer two, either one is a tool worth having. Both sand cleanly, can be inverted for easy sanding of small items, and feature level control to replace belts. The larger one is perfect for flush along-one-side sanding. Each comes with a dust bag and one abrasive belt. Both are doubled insulated.

3" X 21" Belt Sander

Specifications:
Belt Size: 3" X 21"
Belt Speed: 1181 FPM
Amps (@115V): 7.8
Overall Length: 12-1/2"
Net Weight: 10 lbs.

205-1030 3" X 21" Heavy Duty Belt Sander

4" X 24" Belt Sander

Specifications:
Belt Size: 4" X 24"
Belt Speed: 1148 FPM
Amps (@115V): 8.5
Overall Length: 14-3/4"
Net Weight: 16 lbs.



205-1040 4" X 24" Heavy Duty Belt Sander

Finishing Sanders

We offer two finishing sanders with large (4" X 9") pads. Both operate at 10,000 orbits per minute for truly fine finishing. Both are rated for continuous production use. One has an efficient dust collector for clean sanding. Both use standard sandpaper.

Finishing Sander

Specifications:
Pad Size: 4-1/2" X 9"
No Load Speed: 10,000 OPM
Amps (@115V): 1.9
Overall Length: 11"
Net Weight: 5.5 lbs.

205-0450 Finishing Sander

Dust Free Finishing Sander

Specifications:
Pad Size: 4-1/2" X 9-1/4"
No Load Speed: 10,000 OPM
Amps (@115V): 4.0
Overall Length: 10-5/8"
Net Weight: 6.2 lbs.

205-0460 Dust Free Finishing Sander



Resin Bonded Belts are Better

The aluminum oxide abrasive grain on our cloth back sanding belts is bonded to its backing with resin over glue, the same as you would find on industrial belts. Available in closed coating for regular sanding in grit sizes from 36 to 120 and open coating in grit sizes 24 and 36. Open coat helps to reduce clogging. Sold in boxes of 10 belts of one size in one grit.

3" X 21"		3" X 24"		4" X 24"	
	Grit		Grit		Grit
500-0560	36	500-0620	36	500-0680	36
500-0570	60	500-0630	60	500-0690	60
500-0580	100	500-0640	100	500-0700	100
500-0590	120	500-0650	120	500-0710	120
500-0600	*24	500-0660	*24	500-0720	*24
500-0610	*36	500-0670	*36	500-0730	*36

*Open Coating

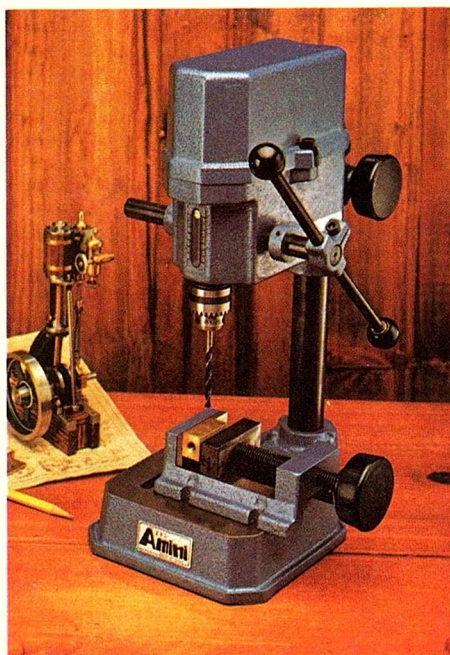
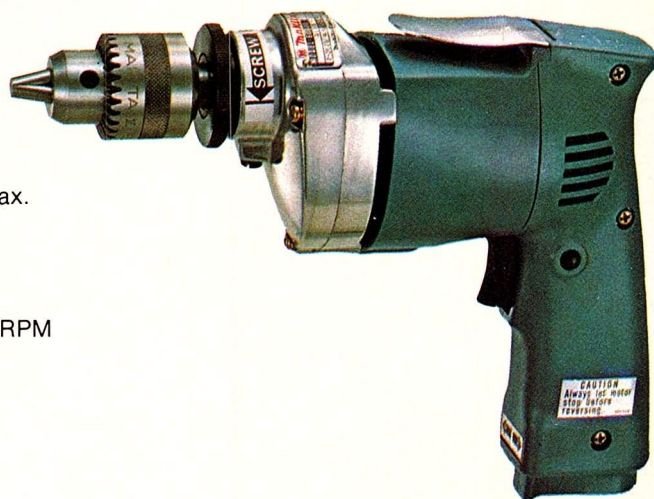
Electric Drills

Uni Drill

Reversible variable speed drill and screwdriver in one. Quickly changes from drill to positive clutch screwdriver. Double insulated. 3/8" chuck capacity.

Specifications:
Chuck Capacity: 3/8" max.
Drilling Capacities:
Steel: 3/8"
Wood: 5/8"
Screws: 1/4" max. dia.
No Load Speed: 0-2600 RPM
Amps (@ 115V): 3.3
Overall Length: 9-7/8"
Net Weight: 3.5 lbs.

205-0490 Uni Drill



Modelmakers Precision Drill Press

This lillipution (15-1/2" high), portable (21 lbs) drill press is the niftiest of all the small drill presses we have seen in the under \$500.00 range. With depth stop and depth indicator.

Vital Statistics

Spindle: Precision ground with a tolerance of $\pm .02$ mm. Chuck Capacity: 1/4" Speeds: 2800, 4500, 7000, and 11,400 RPM. Change pulleys to change speeds. Swing: 10" Spindle Stroke: 1/3/8" Maximum Height Under Chuck: 6-3/4" Spindle: Jacobs #1 Taper Table Surface: 5-1/2" X 5-1/2"

205-0380 Drill Press

Special Drill Press Vises for above with hardened replaceable precision ground jaws

205-0390 Jaw Width: 1-1/2"
Jaw Opening: 1-1/4"
205-0400 Jaw Width: 2-3/8"
Jaw Opening: 2-5/8"

Variable Speed Reversible Drill

This heavy duty tool is ideal for drilling wood. Features all ball bearing construction, built in belt clip and a comfortable handle. Double insulated: 3/8" chuck capacity.

Specifications:
Chuck Capacity: 3/8" Max.
Drilling Capacities:
Steel: 3/8"
Wood: 5/8"
No Load Speed: 0-1800 RPM
Amps (@ 115V): 2.7
Overall Length: 9-1/2"
Net Weight: 3 lbs.

205-0470 Variable Speed Reversible Drill



Cordless Reversible 3/8" Electric Drill

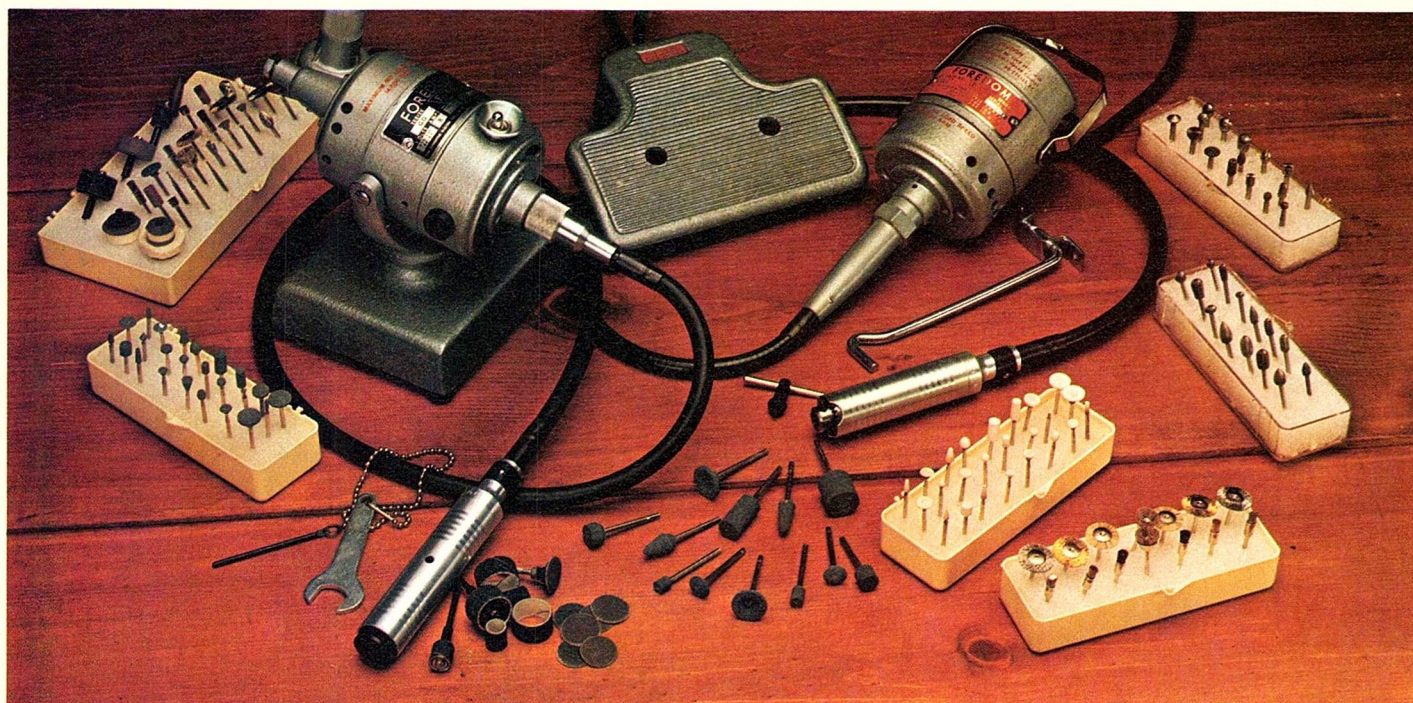
At last a truly professional quality re-chargable electric drill. Complete with battery cartridge and recharger.

Specifications:
Capacities:
Steel/Wood: 3/8" max.
No load speed: 600 RPM (Reversible)
Charging time: 1 hour
Drills 200-3/8" holes in 1" hardwood on one charge
Drives 330-3/16" X 3/4" woodscrews in hardwood on one charge

205-0440 Cordless Electric Drill



Freedom Miniature Power Tools



Next best thing to having your dentist's engine

These Freedom power tools are the most versatile available. Their 1/10th hp motors operate at full torque at speeds from 0-14,000 RPM. The hand pieces supplied with the machines are manufactured in 15 different styles (available through us on special order), each with a quick detachable feature that permits rapid engagement and disengagement. At present we stock 4 machines and the two most useful and popular handpieces, Freedom's #30 and 44A. Handpiece #30 is for general heavy duty use. It has an adjustable key-type chuck to hold shank sizes up to 5/32". Provided with grease-sealed ball bearings that eliminate the need for future lubrication. Handpiece #44A is similar to #30 except for its larger capacity and collet type chuck. Seven collets (1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4") are available. The handpiece, however, comes with only the 1/4" collet. The complete set of 7 is available as an option, as are individual sizes.

The motors are all supplied with electronic foot control rheostats. Models EE and GG are basically the same, differing only in mounting arrangements. A 3-to-1 reduction gear permits both models to operate at low speeds (under 5000 RPM) with virtually no loss of power under load. Series GG sits on a bench in its own base. Series EE is the hang-up variety. A handpiece and rheostat is supplied with either. The handpiece style is identified by the numbers following the model number. Thus EE-30 represents the hang-up machine with electronic foot control and

handpiece #30. Shaft lengths are 37" for either model.

Series R and RB are also identical except for the mounting arrangements. Series R is the hang-up variety; RB the bench style. These machines differ from the EE and GG in that they have solid state speed and torque control and a "full feedback" circuit assuring that no power is wasted. The new circuitry eliminates the need for reduction gears to obtain full torque at all speeds. In other aspects they are the same.

205-0610	EE 30	Hang-up Style
205-0620	EE 44A	Hang-up Style
205-0630	GG 30	Bench Type
205-0640	GG 44A	Bench Type
205-0510	R 30	Hang-up Style
205-0520	R 44A	Hang-up Style
205-0650	RB 30	Bench Type
205-0200	RB 44A	Bench Type

Collets for 44A Handpiece

205-0230	Set of 7 Collets (1/16" to 1/4")
205-0660	1/16" Collet
205-0670	3/32" Collet
205-0680	1/8" Collet
205-0690	5/32" Collet
205-0700	3/16" Collet
205-0710	7/32" Collet
205-0720	1/4" Collet
205-0730	3mm Collet
205-0740	6mm Collet

Extra Handpieces

205-0750	#30 Handpiece only
205-0760	#44A Handpiece only

Accessories

205-0590	12 Assorted Alum. Oxide 1/8" Shank Mounted Points
500-0880	24 Assorted Silicon Carbide 3/32" Shank Mounted Points
500-0870	Assorted Alum. Oxide 3/32" Shank Mounted Points
205-0580	16 Assorted High Speed Steel 1/8" Shank Burs
205-0550	16 Assorted High Speed Steel 3/32" Shank Burs
205-0600	8 Assorted Carbide 3/32" Shank Burs
205-0530	35 Assorted Accessories
205-0560	14 Assorted Steel, Brass & Bristle Brushes — 3/32" Shanks
205-0570	225 Assorted Sanding Drums, Discs & Mandrels — 1/8" + 3/32" Shanks

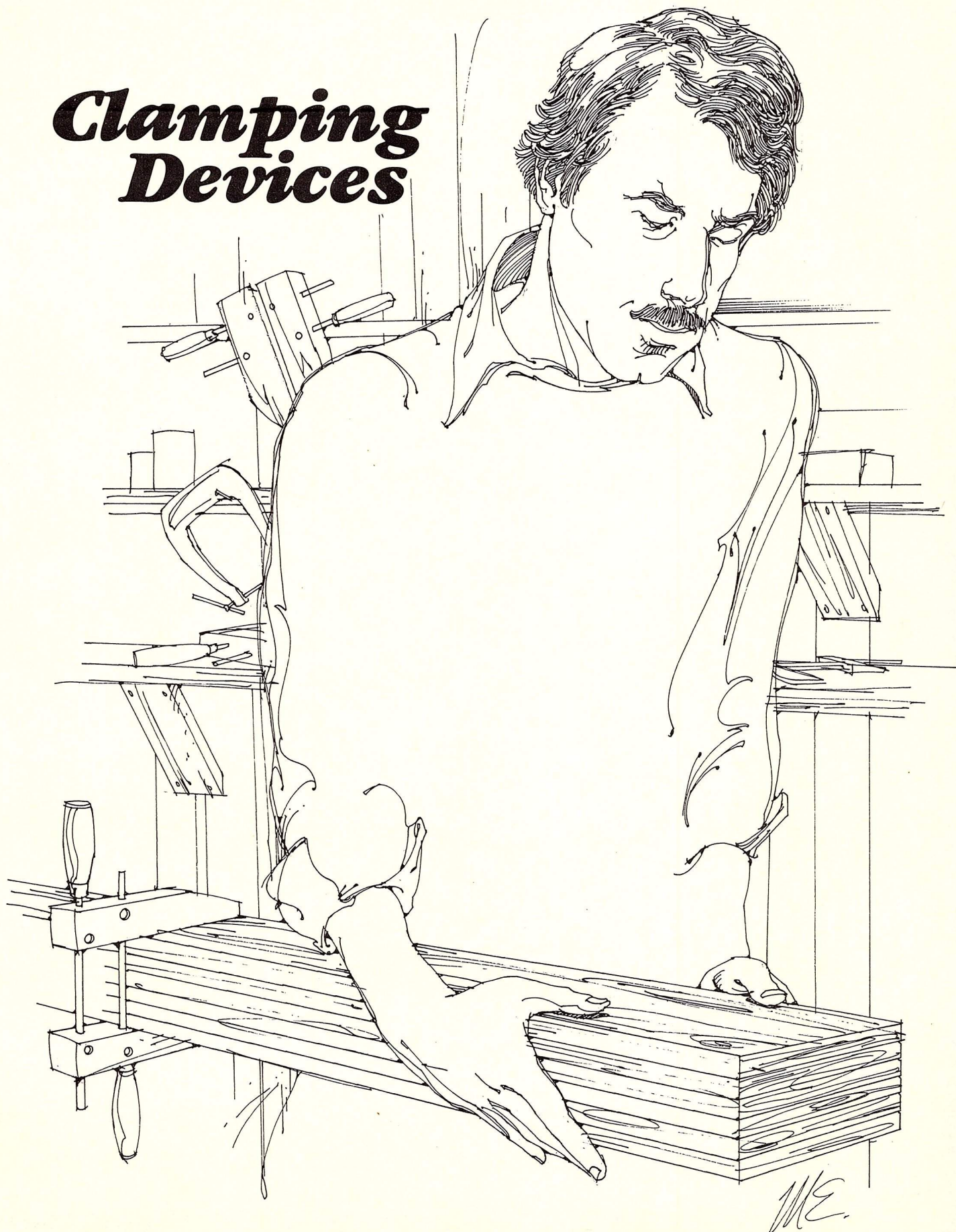
Aluminum Oxide Points work best on steel.

Silicon Carbide Points work best on aluminum, brass, stainless steel, glass, gemstones.

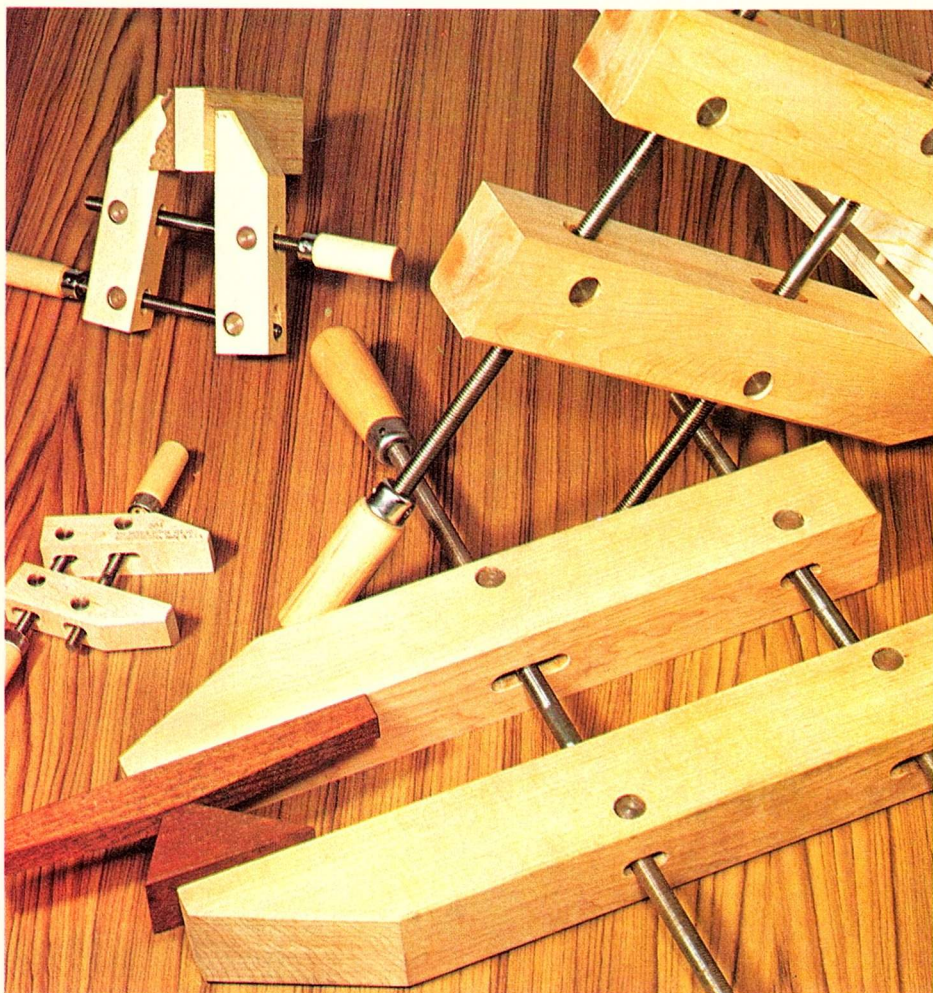
High Speed Burs can be used on any material except glass and hardened steel.

Carbide Burs can be used anywhere. Best at high speeds.

Clamping Devices



Wooden Handscrews

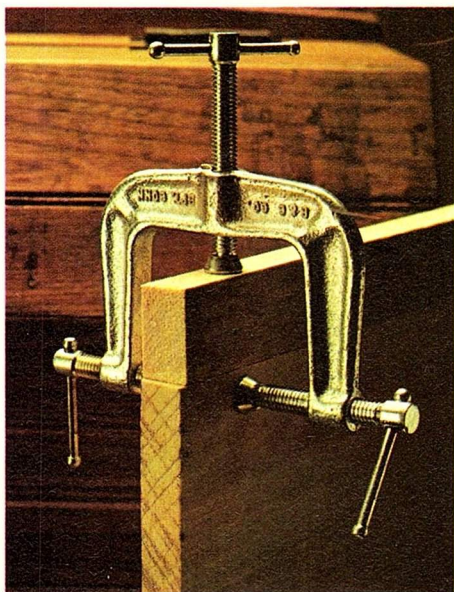


Wooden Handscrews

Sometimes called Parallel Clamps. These most useful clamps adjust to conform to non-parallel surfaces (their alternate name notwithstanding). They grip tightly over a broad area and are most unlikely to mar any usual finish.

The way they work is quite simple. Two hardwood blocks are connected by two handled screws, one in the center, the other near the rear. Years ago, the threads were wooden and the blocks were tapped to receive them. Today, the blocks have metal threaded inserts and the screws themselves are made of steel. To quickly position the handscrew to accept the workpiece, grip each handle and rotate the entire tool toward or away from you to close or open the jaws. Insert the work, adjust the jaws, and complete the tightening with the rear screw.

	Jaw Length	Max. Jaw Opening	Throat Depth
300-0410	4"	2"	2"
300-0420	6"	3"	3"
300-1210	8"	4-1/2"	4-1/4"
300-1220	10"	6"	5-1/4"
300-1230	12"	8-1/2"	6"
300-0430	14"	10"	7"
300-0440	16"	12"	8"



Edging Clamp

This peculiar looking device features three clamping screws. Unbeatable for gluing ornamental molding or trim to the edge of a board.

300-0520 Edging Clamp

Jaw Clamps



Is it possible to have too many clamps?

Sometimes when we get involved in a big gluing project, we wish we owned a clamp factory. Failing that, we have uncovered what are the most useful, lightweight, versatile clamps we have ever used. They are called Jaws...The Instant Action Clamps.

Sizes from 6" to 24" use a formed notched steel beam and a ratcheting arm. The formed beam has a fixed serrated jaw for holding flat, round, or tapered workpieces. The similar opposing jaw on the sliding arm floats to accommodate the shape of the workpiece.

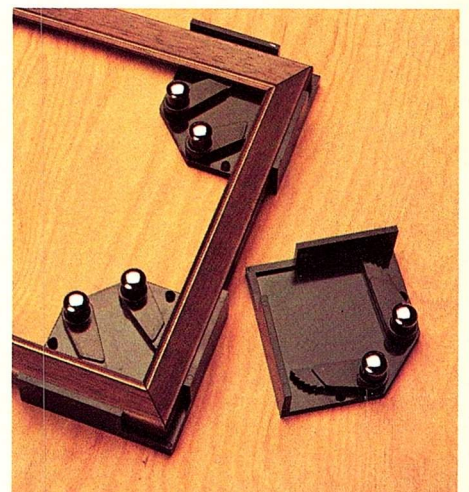
30" and 36" models employ a straight notched steel beam and two sliding ratchet arms. These can be reversed to exert outward pressure, similar to a spreading jack.

A novel ratchet system makes the jaws easy to position, even in the most confined working areas.

The unusual side mounted locking handle permits a fine adjustment for final tightening.

Plastic jaw pads to protect delicate surfaces are included. Throat depth of all models is 2-3/4".

- 300-0650 6" Jaws
- 300-0660 12" Jaws
- 300-0670 18" Jaws
- 300-0680 24" Jaws
- 300-0690 30" Jaws
- 300-0700 36" Jaws
- 300-0900 An extra pair of jaw pads



If you only have two hands, you'll be grateful to have this Mitre Clamp.

A product from the producers of the Jointmaster. Essentially these spring loaded clamps lock your frame-to-be in the held and ready-to-be-glued position. When you are satisfied that all is well, you apply pressure to opposing sides so that all mitres meet in perfect union. Maximum capacity: 1-1/4" wide frame.

300-1140 Set of 4 Mitre Clamps

Clamp Fixtures



Pipe Clamps

The advantage of this arrangement is that it permits you to make a clamp of almost any length. All you need is a 1/2" or 3/4" diameter pipe of a length of your own choosing (generally over 3 feet), threaded at one end or plain, and a set of appropriate pipe clamps. One clamp member is fitted to one end of the pipe and is fixed thereto by the thread or a set screw. The other jaw slides along the pipe to the desired clamping position and is held there under tension by a lever operated cam.

The clamps plus the pipe are, as you might imagine, somewhat heavy, particularly as you get into the longer pipe lengths. The 1/2" clamps alone weigh about 1-1/4 lbs. per set and the 3/4" almost 2-1/2 lbs. However, they are quick and easy to use and rather efficient when properly used.

When clamping large frames, before gluing, affix each clamp in line with and on the joints of the assembled frame. Leave room for softwood blocks to be inserted between the frame and the four clamping jaws. These blocks will protect the work and spread the load on the frame. Enough thread should be left on the fixed clamp head for final tightening. Now glue the frame and apply the clamps evenly by alternating the tightening pressure from one clamp to the other. After

the excess glue has been pressed out, the clamps may require slight adjustment.

When making a wide board by clamping narrow boards together, alternate the clamps over and under the board to inhibit buckling.

300-0450 For 3/4" Unthreaded Pipe
300-0460 For 1/2" Unthreaded Pipe
300-0470 For 3/4" Threaded Pipe
300-0480 For 1/2" Threaded Pipe



Lock-Jaw Vise

Very useful and slightly ingenious. Is just about ideal for working with small parts.

One of the fascinating aspects of this tool is its patented rear tilt jaw. This gives it the advantage of holding irregularly shaped work. The jaws themselves are made of lightweight, but very strong, magnesium and are grooved to hold angled or round as well as flat workpieces. The vise is cast from one of those super light and super strong space age materials. It is virtually indestructible. Bolting holes are provided in its base for fixing to a bench or table.

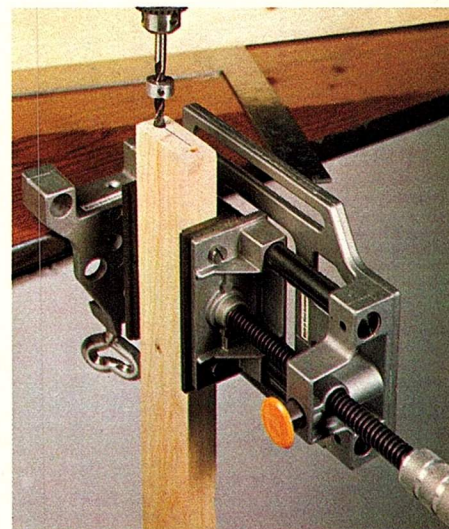
It also has a built-in vacuum base that will secure it to a flat non-porous surface,

such as metal, glass, and plastic laminates that commonly line kitchen counters. An extra pair of jaws is included. These are made of vulcanized rubber to hold fragile items.

An optional accessory is available. It is a specially designed clamp that adds portability to the vise. The vise itself is screwed to the clamp which is then affixed to bench or table. The vise alone weighs 4-1/2 lbs. Jaw Width: 4" Maximum Opening: 3"

300-0750 Lock-Jaw Vise with 2 pair of Jaws

300-1240 Optional Clamp



The Bench Buddy Vise

This is another ingenious combination vise that clamps to your bench or bolts to your drill press table. The clamp and vise are so designed that you can set the vise at 45°, 90°, or 180°. A quick action cam is provided. Just touch the button and slide the jaw instantly forward or back. The jaws are grooved to hold angled and round, as well as flat, workpieces. Total weight is only 5 lbs. Jaw Width: 4", Maximum Opening: 4"

300-0130 Bench Buddy Vise

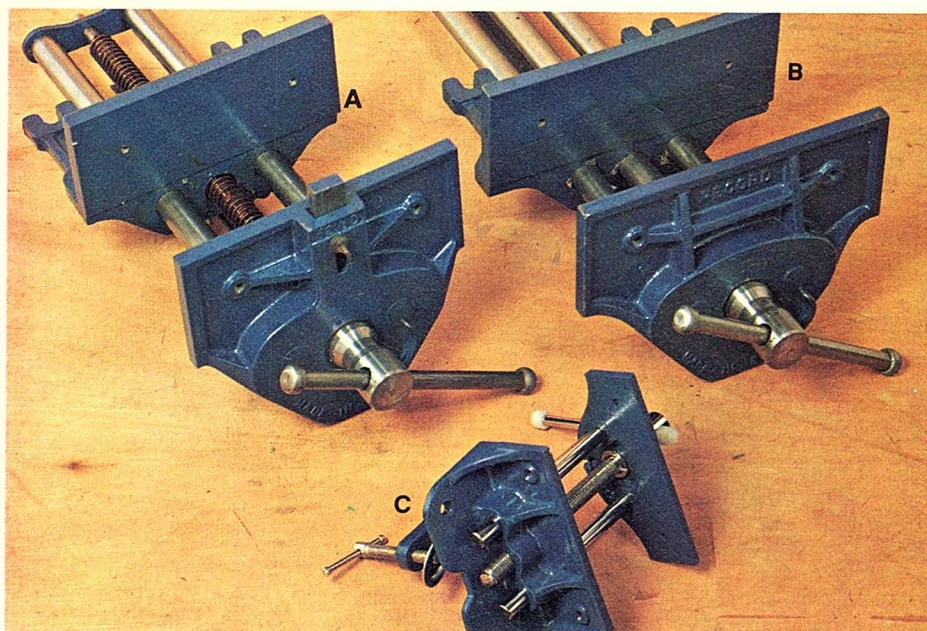


Drill Press Vises

These are designed for drill press work. The moving jaw is a unique, non-lifting swivel type, capable of holding any shape of workpiece. Both jaws are slotted horizontally and vertically to hold small triangular and round pieces. The vise base is slotted for bolting to the drill press table. The base end face and outer side faces are machined for quick and accurate positioning.

	Jaw Width	Jaw Opening	Jaw Depth	Approx. Weight
300-0840	2-1/4"	1-1/2"	3/4"	3 lbs
300-0850	3"	2-1/2"	1"	6 lbs
300-0860	4"	3"	1-1/4"	11-1/2 lbs

Vises



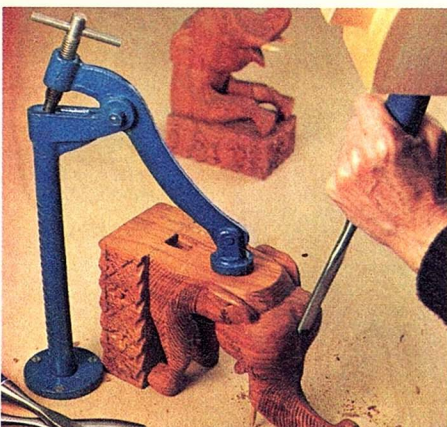
Vises

Although wood working benches first appeared during the Age of Pericles, the methods used to hold workpieces were rather crude for the Greeks—or so it appears. Yet the vises that we know today, simple things that they are, were only developed in this century.

For beginners only, here are two versions of the same tool. No. 300-1110, a light, plain, amateur's woodworking vise, is intended to be mounted to the underside of a workbench.

No. 300-0830 is the same vise but fitted with a screw clamp for portability. It also has two mounting holes for top of bench mounting. The use of these mounting holes will provide greater rigidity, but will also diminish the convenience of portability.

	Jaw Width	Jaw Opening	Screw Clamp Capacity	Approx. Weight
C 300-1110	6"	4-1/2"		6-1/2 lb
D 300-0830	6"	4-1/2"	3/4" — 2-1/4"	6 lb



Heavy Duty Woodworkers Vises

With quick release action. Body is of robust design. Slide bars operate in accurately machined housings giving a smooth sliding movement. The bars cannot work loose and are positioned to give ample clearance for gripping large work. Body casting designed to exclude sawdust and dirt from working parts.

The quick release action opens and closes the jaws instantly upon pressing the lever. A half turn on the handle grips or releases the work immediately. Plain screw action may be used when desired.

First rate tools that are accepted as the standard woodworkers' bench vises.

	Jaw Width	Jaw Opening	Approx. Weight
A 300-0610*	9"	13"	36
B 300-0620	10-1/2"	15"	38

*Has front dog feature that, when used in conjunction with a stop fixed on the bench, operates most conveniently as a simple clamping device.

Bench Holdfasts

These aptly named devices started life as an iron bar in the shape of a figure 7. This figure 7 was driven tight by hammering from above and was released by knocking upward. Today's holdfast is still quite simple but a lot easier to use. It consists of a cast iron notched shaft at the top of which is a short arm set at a right angle. To this arm a curved lever is pivoted. The lever has a steel screw at the top end, and a steel swivel or shoe at the other end. The shaft is inserted in a collared hole in the workbench. The work is placed under the steel swivel. When the screw is tightened, the work is held fast by the



Wish we had thought of this.

Corner Vise

gives you two bench edges to use so that long work can be held vertically as well as horizontally. Aluminum casting with chrome-plated handles and screws. Screw holes are pre-drilled in the base for permanently fixing the vise to a work bench. Additional holes have been provided in the jaws to allow you to insert wood liners to protect your more fragile work pieces.

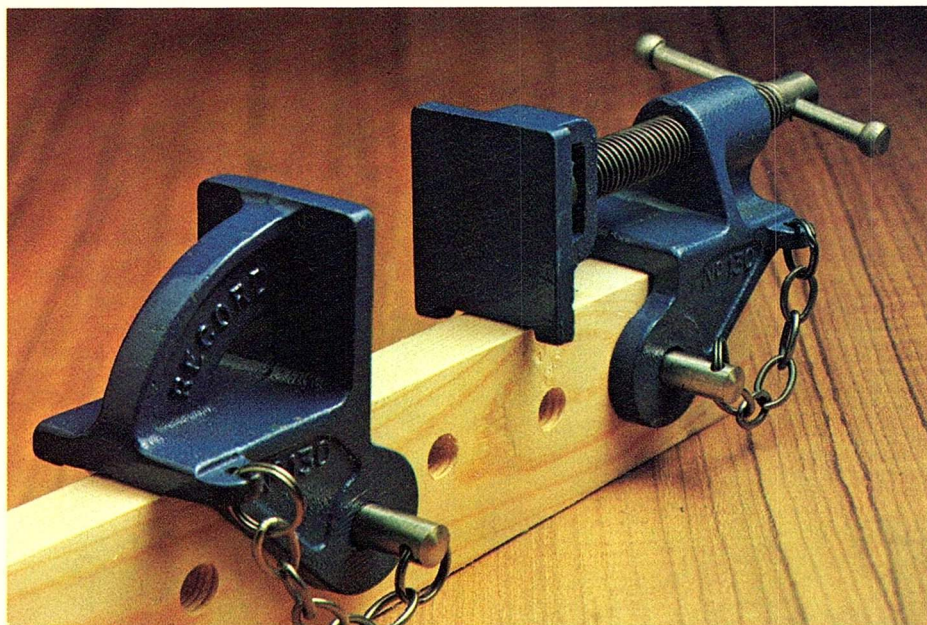
E 300-1120 Jaw width 6",
Jaw opening 5",
Jaw depth 2"

swivel because the lever arm has wedged the notched shaft against the collar. The holdfast can be removed from its collar when not required.

The unit is supplied with two metal collars which should be housed just below the surface of the bench at different locations, including perhaps the bench leg so that in conjunction with your wood workers' vise you can hold long boards. Extra collars are available.

	Max. Reach	Max. Opening
300-0570	5-7/8"	6-7/8"
300-0580	7-1/16"	7-5/8"
300-0820	Extra collar	

Flooring Clamps



Clamp Heads

from England, are somewhat like pipe clamps except that they employ a wooden rail to make an extra long clamp. One member of the clamp is fixed to the rail while the other is free to slide along the rail's length until positioned where desired. The clamp members are secured to the rail by steel pins which pass through pre-drilled holes in the rail. Needless to say, the wooden rail must be straight when purchased and unlikely to readily warp. Moreover, as the length of the rail increases, it will most likely be necessary to increase the width of the rail for the sake of rigidity.

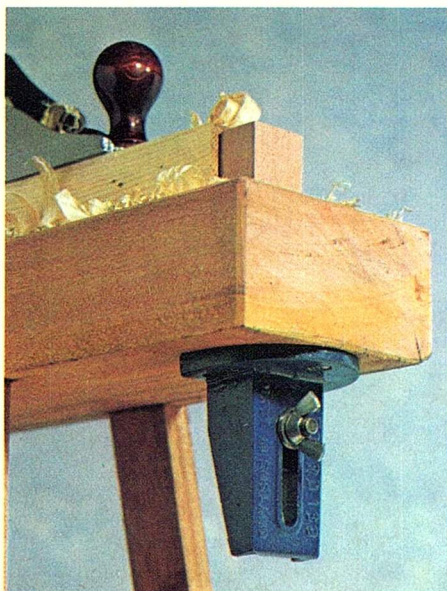
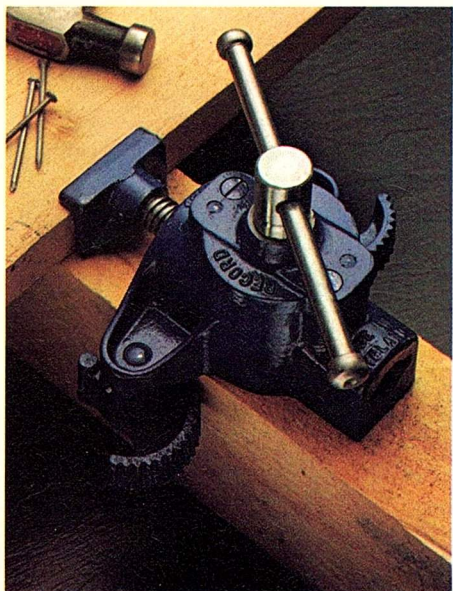
To begin with, you will need a 1" thick rail not less than 1-1/2" in width. Drill the holes per instructions included.

300-0630 Clamp Heads
(weight 2-1/2 lbs)

Flooring Clamps are not for everybody.

They are used to close up floor boards before nailing them to the joists. The clamp has spring loaded cams on the underside which fit over the joist behind the floorboard. The clamp jaw sits over the edge of the floorboard. As pressure is applied by turning the handle, the knurled cams tighten on the joist and the jaw moves forward. Well, when you need them, you need them. They sure are well made.

300-0880 Flooring Clamp



Wood Workers Bench Stop

If you are using a plain work bench without the convenience of stops, here's a product you'll thank us for. Merely cut a hole in your bench top to accommodate the hardwood block. Then affix the metal portion to the under-surface of the bench so that it will receive the wood block. The wing nut on the metal block holder permits you to adjust the height of the wood block. Presto. You now have the tremendous convenience of a bench stop for planing, carving, or just holding some workpiece in position for longitudinal application.

300-0590 Bench Stop

Special Clamps

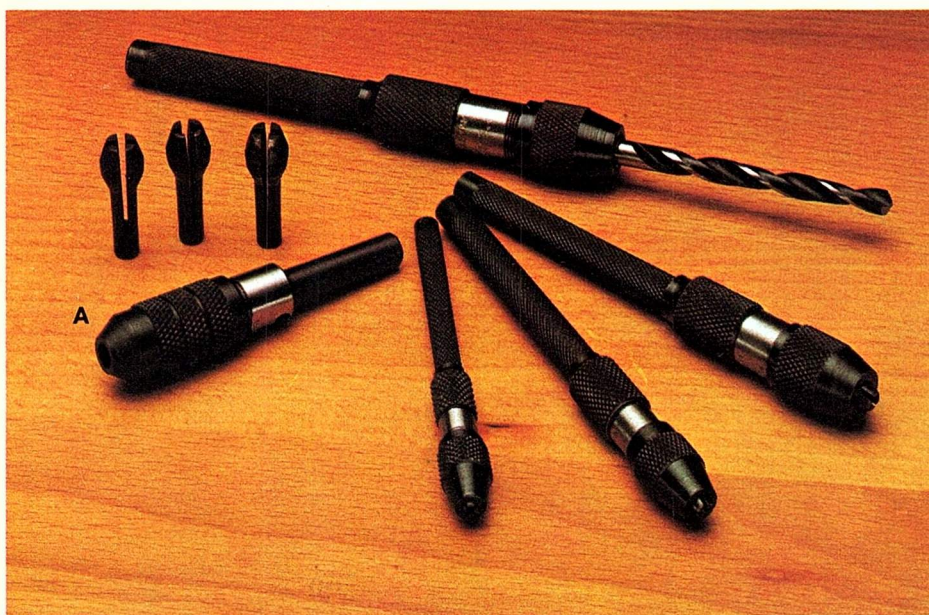


Corner Clamps

Often called mitre clamps. Their purpose is to hold the two halves of a mitre joint against the right angle clamp walls. Body mounting holes are provided so that the clamps can be screwed to a bench or a block of wood. The glued joint is assembled in the clamp. Screw pressure should be applied gently and alternately. Available in two sizes.

300-1180 2" maximum capacity

300-1170 4-1/4" maximum capacity



Pin Chucks

are designed to hold small drills in the chuck of a drilling machine. Three interchangeable collets are included with each chuck. The collets will hold drills from 0.25 to 2.5 mm (0.01" to 0.10"). Overall length is 65 mm (2.56"). Shank diameter is 1/4".

A 200-1820 Pin Chuck

Pin Vises

available in four sizes, are work holding tools for hand use. They have hollow handles and will accept round material of any length. The heads are hand tightened chucks.

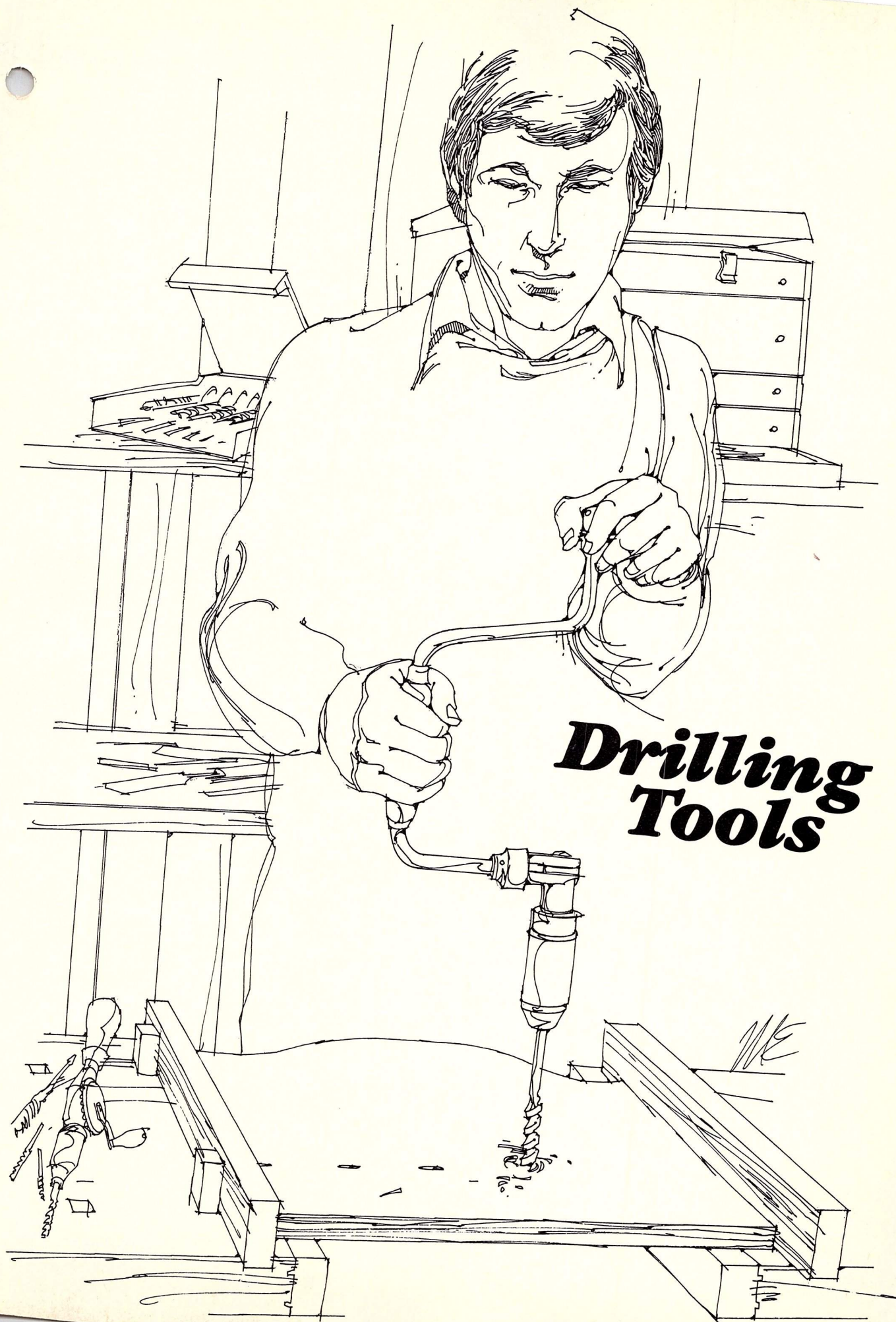
	Capacity		Overall Length	
	mm	in.	mm	in.
300-0780	0-1.0	0-.04	75	3
300-0790	0.75-1.5	.03-.062	90	3-1/2
300-0800	1.4-3.1	.055-.122	95	3-5/8
300-0810	3.1-5.0	.122-.196	105	4-1/8
300-1190	Set of 4 (1 Each of above)			



Two will never do and six are hardly enough

Spring Clamps fortunately are modestly priced. They are really indispensable for providing light pressure while gluing. To prevent marring the work, plastic dipped jaws are provided. However, if the surfaces you are gluing are too delicate for such local pressure, we suggest that you insert scrap hardwood between the work and the jaws.

	Jaw Opening
300-0490	3/4"
300-0500	1-1/2"
300-0510	2-3/4"
300-1200	4"



Drilling Tools

Auger Bits

Auger Bits

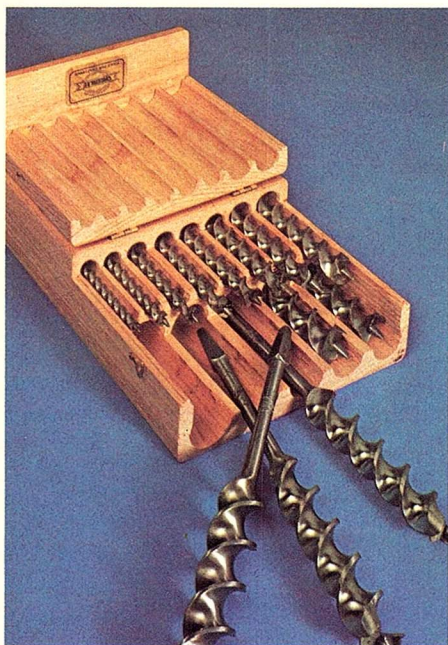
It was written in 1711 by one William Sutherland "...If ever any Person was Deify'd for Inventing, I should highly recommend the Author of an Augre deserving of that glory."

The earliest augers dated from the Romans, were made of iron and were spoon shaped. It wasn't until the late Middle Ages that the Nose Auger was introduced. Twist or spiral augers only

became common in the late 18th century. One of the main advantages of the twisted augers is that the shavings run up the spirals, thereby eliminating the need for constant withdrawal of the tool to clear the debris. The screw lead, in addition to centering the bit, tended to pull the twisted body into the hole. Other virtues were extolled in the 1909 Irwin catalog: "No chocking, no breaking, no swearing,

no tearing. A bit without bending. A joy without ending."

There are two main types of auger bodies in production today: the double twist and the single twist. The double twist gives cleaner and more accurate holes. Single twist bits, including the solid centre type developed by Irwin, are stronger and thus preferred for very long lengths and heavy work.



Russell Jennings Pattern Auger Bits

are designed for boring deep, clean holes in wood. These are the double twist variety with double spurs and tapered screw lead. They are available as a 13 piece set, in a handsome oak box with brass hardware, and also individually.

	Size
110-0130	1/4"
110-0140	5/16"
110-0150	3/8"
110-0160	7/16"
110-0170	1/2"
110-0180	9/16"
110-0190	5/8"
110-0200	11/16"
110-0210	3/4"
110-0220	13/16"
110-0230	7/8"
110-0240	15/16"
110-0250	1"
110-0260	Set of 13 impressively boxed



For heavier work and harder woods, the **Solid Center Auger Bits** are preferred. These too have double spurs and cutters and a tapered lead screw. Of course, these single twist auger bits can handle any general purpose boring in almost any kind of wood. Lengths from 7-1/2" to 9-1/2" depending on size. Available individually and as a 13 piece set in an attractive hardwood case.

	Size
110-0380	1/4"
110-0390	5/16"
110-0400	3/8"
110-0410	7/16"
110-0420	1/2"
110-0430	9/16"
110-0440	5/8"
110-0450	11/16"
110-0460	3/4"
110-0470	13/16"
110-0480	7/8"
110-0490	15/16"
110-0500	1"
110-0030	Set of 13 handsomely boxed



Micro-Dial Expansive Bits

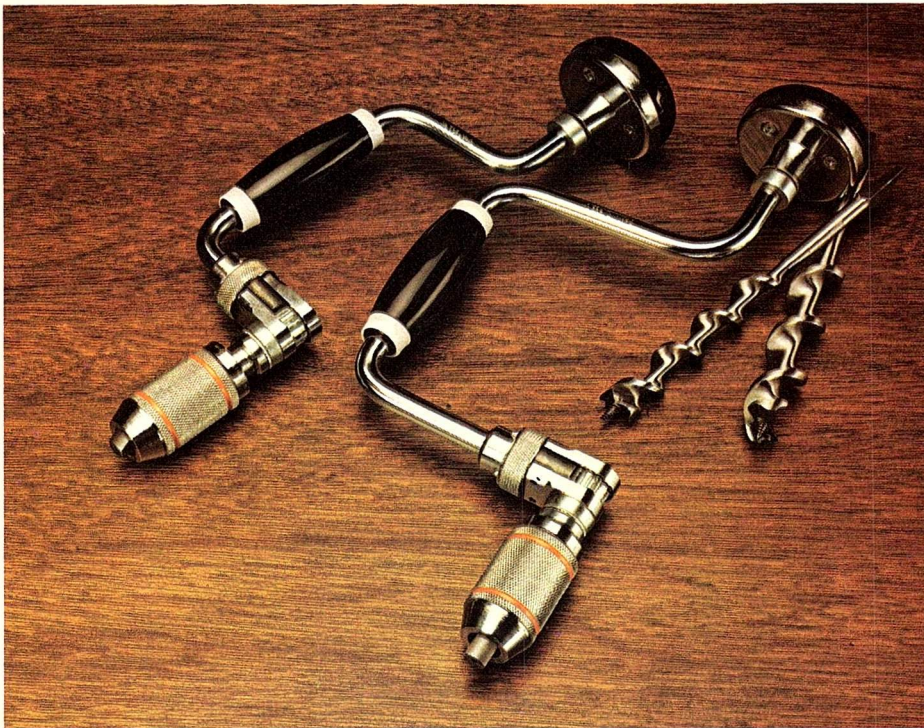
Very useful tools for the Bit Brace owner who wants to carry as little as possible to the job. Not the sort of tool you would use in your own shop. The two sizes available will bore any standard hole from 5/8" to 3" with the four cutter heads available.

	Capacity	Overall Length
110-0510	5/8" to 1-3/4" (19 standard holes)	7-1/8"
110-0520	7/8" to 3" (35 standard holes)	8-1/8"

Extra cutters (and parts) for Micro-Dial Bits

110-0530	5/8" to 1"
110-0540	1" to 1-3/4"
110-0550	7/8" to 1-3/4"
110-0560	1-3/4" to 3"
110-0570	Dial for Model 110-0510
110-0580	Dial for Model 110-0520
110-0590	screw for either model

Braces & Power Bits



We would like to call this simply
"None Better"

Craftsman's Brace of the finest quality .

The 12 point ratchet is fitted with a quick release mechanism. Steel frame is chromium plated. The head is ball bearing and, like the handle, virtually unbreakable. Universal Jaws. Two models are available one with a 10" sweep, the other with a 5-7/8" sweep.

110-0050 Craftsman Brace
110-0060 Short Sweep Brace

A Extra long, extra powerful, Auger Power Bits

These are for drilling deep holes by machine. They are made from 1060 steel, a very tough alloy, and are hardened to 57 Rockwell C. They will go through nails the same way they go through wood. The twist length is 12", overall 15-1/2". There is a tapered lead screw and a flat cutting edge without spurs. Sizes up to 1" have 3/8" diameter shanks; over 1" have 1/2" shanks.

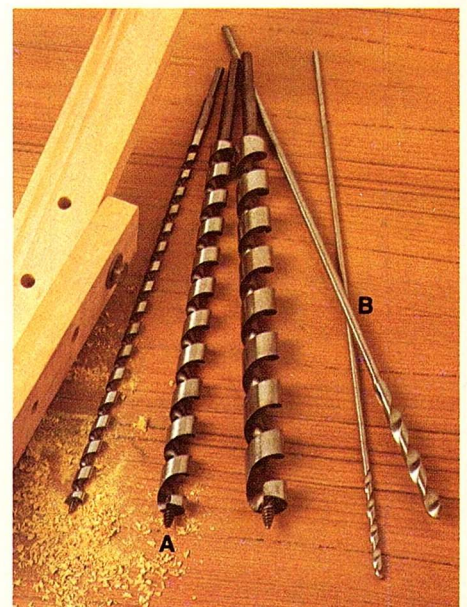
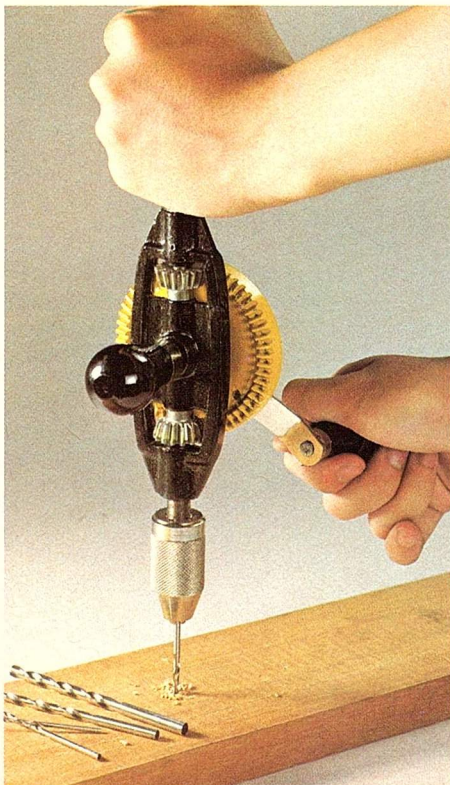
	Size
200-1240	1/2"
200-1250	9/16"
200-1260	5/8"
200-1270	11/16"
200-1280	3/4"
200-1290	13/16"
200-1300	7/8"
200-1310	1"

Saving energy is not what this is
all about.

Hand Drill

It will save you the effort of bringing your electric drill and extension cord to the job when only very little work must be done. It also works where electricity is not available. The three jaw chuck with 5/16" capacity holds most accessories. The frame is gray iron nicely nickel-plated and painted. The double pinions are self-oiling. A well-made tool.

110-0040 Hand Drill



B Feeler Bits

Slightly flexible bits made for convenience in wire pulling. Each bit (except 3/16") has a 3/32" hole about 1-1/2" from its point. Many craftsmen customers have told us that for deep hole drilling these are a real blessing. Made for power use. 18" long with 3-3/4" flute length.

	Size
200-1410	3/16" X 18"
200-1420	1/4" X 18"
200-1430	3/8" X 18"

Woodbits



A dancing drill bit is not entertaining

Not when it puts the hole where you didn't want it or scratches the work piece. Our brad point drills are guaranteed not to dance, or even walk. The brad point digs in before you switch on your drill. The double spurs ensure clean holes. These are the perfect wood bits for making accurate dowel holes.

	Diameter	Length	Shank Dia.
200-2250	1/8"		1/8"
200-2260	3/16"		3/16"
200-2270	1/4"		1/4"
200-2280	5/16"		1/4"
200-2290	3/8"		1/4"
200-2300	7/16"		1/4"
200-2310	1/2"		1/4"
200-0010	The complete set of seven		

Drill Stop Collars control depth of drill penetration

Ours have two hex-socket set screws to hold the stop solidly in place.

	To Fit Drill Diameter	Overall Length
200-2400	1/8"	1/2"
200-2410	3/16"	1/2"
200-2420	1/4"	1/2"
200-2430	5/16"	5/8"
200-2440	3/8"	3/4"
200-2450	1/2"	7/8"



Genuine Jacobs Geared Chucks

For drills, drill presses and flexible shafts. Two keys included with each chuck.

	Capacity	Inside Thread
202-0110	0-1/4"	3/8"-24
202-0120	1/16"-3/8"	3/8"-24
202-0140	5/64"-1/2"	3/8"-24
202-0150	5/64"-1/2"	1/2"-20

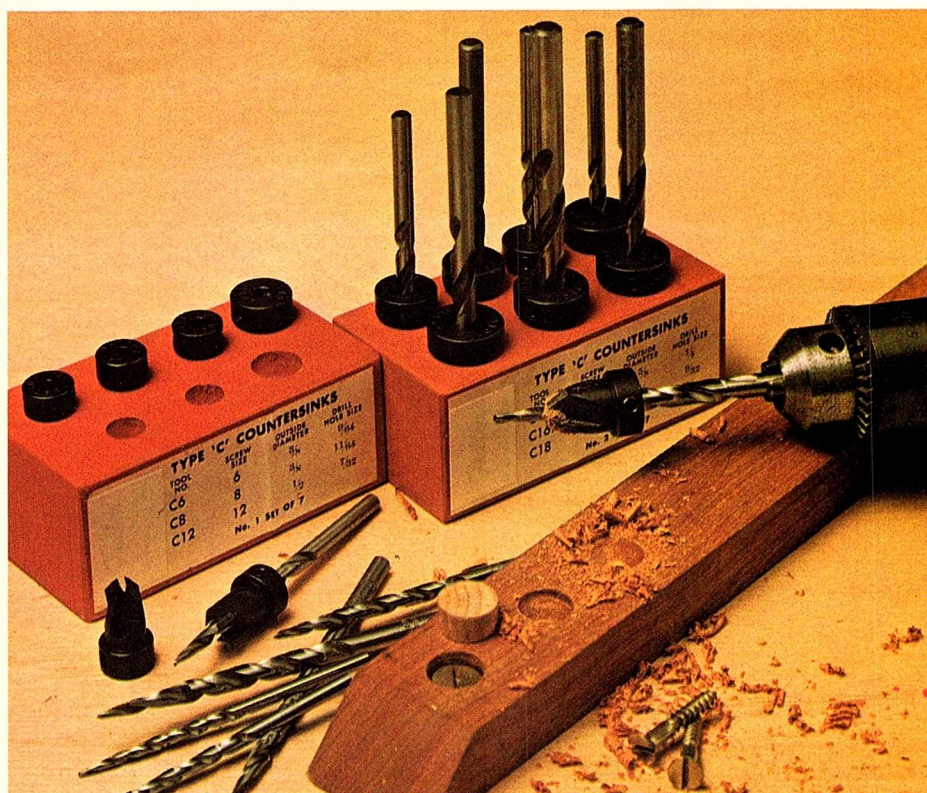


From A to Z is not enough

The full range of everyday, high speed drills include 1/16" to 1/2", #1- #60, and A-Z. That means 115 different sizes. If you would like to own them all, here they are. The very useful folding drill index is included.

200-0480 115 Pc. Top Quality High Speed Drill Set in Index

Countersink/Counterbore System



Why would you drill a parallel hole for a tapered screw?

Because you didn't give it a second thought? Because you don't have any tapered drills? Well, now you have given due consideration and here is your opportunity to buy a set of high speed steel tapered drills. Certainly, if the drill and the screw match, the screw will grip along its entire length.

Tapered drilling is only the beginning of a system that includes countersinking, counterboring, and plug cutting. Countersinks/counterbores are available to match flat head screw sizes. They fit over the drill bits and are secured where desired with two set screws. With this system, you can drill, countersink, and counterbore at the same time and do everything with precision. These same countersinks/counterbores will also fit over an ordinary parallel twist drill. If you

wish to eliminate the counterboring operation, stop collars can be furnished. These slide over the countersink and can be adjusted to control the depth of cut.

The last part of the system is cutting plugs to fill in the counterbored hole with matching or contrasting wood. When you cut your own plugs, you can exactly match the grain of the work piece.

These cutting tools are professional quality in every sense. The four flutes on the countersinks/counterbores, and the plug cutters are separately ground and the tools are hardened for long wear.

The plug cutters do not eject the plug. It remains in the board and can be chiseled out or sawn free.

These tools are intended for use on wood and plastics. The countersinks are ground with an 82° included angle.

Tapered Drills

Screw Size		Size
5	200-2110	1/8"
6	200-2120	9/64"
7	200-2130	5/32"
8	200-2140	11/64"
9	200-2150	3/16"
10	200-2160	13/64"
12	200-2170	7/32"

Countersink/Counter Bores

Screw Size		Outside Dia.
5	200-2180	3/8"
6	200-2190	3/8"
7	200-2200	3/8"
8	200-2210	3/8"
9	200-2220	3/8"
10	200-2230	7/16"
12	200-2240	1/2"

Countersink Stop Collars*

Screw Size		Inside Dia.
5 thru 9	200-0610	3/8"
10	200-0620	7/16"
12	200-0630	1/2"

*These stop collars are not the same as drill stop collars. They fit the matching countersink/counterbore, not the drill.

Sets are also available

- 200-0550** Set of 7 tapered drills above listed
- 200-0570** Set of 7 countersink/counterbores above listed
- 200-2090** Set of 7 stop collars
- 200-1830** The complete set of 21 pieces
- 200-2100** Set of 3 plug cutters (3/8", 7/16", 1/2")

Individual Plug Cutters make chamfered plugs for easy insertion

	Plug Diameter	Plug Length	Tool Shank Diameter
200-0670	3/8"	1/2"	1/4"
200-0680	1/2"	1/2"	1/4"
200-1860	7/16"	5/8"	1/4"
200-2080	Set of Three plug cutters		



Large Drills



A Spur Machine Bits

These are intended for cross grain boring, dowel hole drilling, and other general work requiring smooth, accurate holes. Best used in a drill press, but can be used with a portable drill where a screw or brad point bit is not required.

The two spurs cut in advance of the edges. The flutes are milled so spurs can be maintained for 3/4" of twist length when resharping.

Furnished with 1/2" shanks on all sizes.

	Size
200-1610	1/4"
200-1620	5/16"
200-1630	3/8"
200-1650	1/2"

B Spiral Plug Cutters

Suitable for cutting cross grain or end grain plugs up to 2" long. Plugs up to 1" in length are easily cleared through the 1-1/8" opening.

Cutter is made of tough alloy steel. The inside and the outside of the barrel are accurately ground after hardening to assure proper clearance and size. Shanks for all sizes are 1/2"

	Size
200-1660	3/8"
200-1670	1/2"
200-1680	5/8"
200-1690	3/4"
200-1700	1"

C Multi-Spur Bits

are designed for power use for fast, smooth boring in a variety of applications. They are made of high grade alloy steel. The head and shank are accurately ground for size and clearance. These bits don't wander in the hole and don't clog. They are very useful for boring any arc of a circle on the edge of a piece of stock, at any angle, without splitting the stock. They will go through veneered stock without tearing. Shank sizes are 1/2". Overall length is about 5-1/2".

	Size
200-1440	1/2"
200-1450	5/8"
200-1470	3/4"
200-1490	1"
200-1530	1-1/4"
200-1560	1-1/2"

Practically hands the drill bit to you

Drill cases that automatically position the bits for easy selection. All you have to do is open the case. Drill sizes are clearly printed silver on black where the drills are lodged. The flat folding case is heavy gauge steel. A tap-drill index is included. Two sizes available.

- 200-0720 Holds Drills: 1/16" to 1/2" by 64ths
No. 1 to No. 80 A to Z
Capacity: 135 Drills
- 200-0730 Holds Drills: 1/16" to 1/2" by 64ths.
No. 1 to No. 60 A to Z
Capacity: 115 Drills



Big drills, big holes...big money

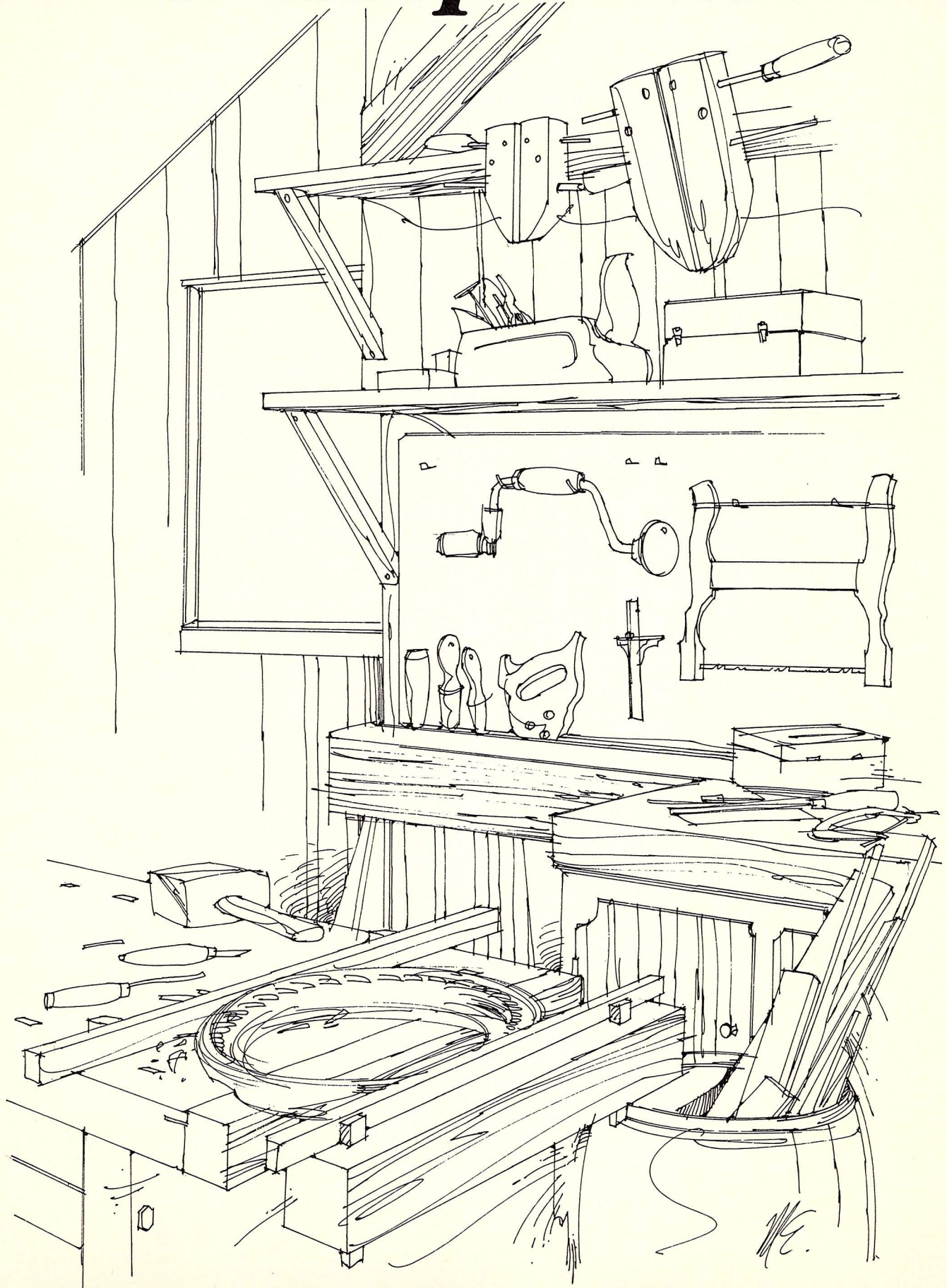
But without the 1/2" shanks on these High Speed Twist Drills, you would need a machine shop at home to drill these holes. These drills are intended for use on metal. All are 6" long.

	Drill Diameter
200-2320	17/32"
200-1720	9/16"
200-2330	19/32"
200-1730	5/8"
200-2340	21/32"
200-1740	11/16"
200-2350	23/32"
200-1750	3/4"
200-2360	25/32"
200-1760	13/16"
200-2370	27/32"
200-1770	7/8"
200-2380	29/32"
200-1780	15/16"
200-2390	31/32"
200-1790	1"

Complete set of 13 drills
An 8 piece set 9/16" to 1" by 16ths



Workshop Accessories



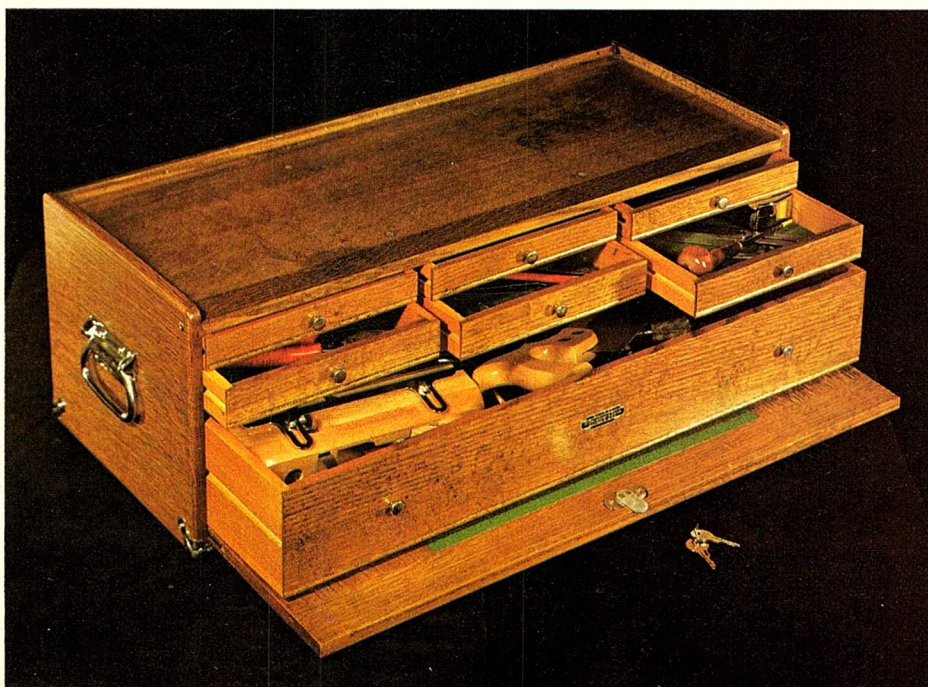
Tool Chest



What would you think if someone gave you one of these for a present?

Magnificent tool chests that would look well in a living room. Ours are kiln-dried, cabinet quality, hand rubbed oak. The hand fitted drawers have tongue and groove joints and felt lined bottoms. The top compartment is completely felt lined. Heavy, nickel plated steel hardware used throughout. Fine wood, felt linings, and precise workmanship, provide tight chests that resist moisture and temperature changes to protect your valuable tools. They are beautiful enough to house a woman's fine jewelry. In fact, we have one for jewelry or small tools.

Speaking of presents, don't you owe yourself one?



The Master Craftsman's Chest and Base*

Chest Drawers	Length	Height	Depth
Top Compartment	25"	4-1/2"	9-1/4"
2 Drawers	3-1/8"	5"	8-3/8"
4 Drawers	7-7/8"	3/4"	7-1/4"
4 Drawers	7-7/8"	1-1/4"	7-1/4"
1 Drawer	24-1/4"	3/4"	7-1/4"
1 Drawer	24-1/4"	1"	7-1/4"
1 Drawer	24-1/4"	2-1/4"	8-1/4"

Base Drawers

3	7-3/4"	1"	8-1/4"
3	7-3/4"	1-1/4"	8-1/4"
1	25-1/2"	3-5/8"	9"
Overall Chest Size	26" X 16-3/4" X 10-1/2" 47 lbs		
Overall Base Size	27-1/4" X 9-1/2" X 11-1/4" 25 lbs		

400-0040 Chest Only

400-0060 Base Only*

*The base is fully finished and can be used separately.

Tool Chest

Jewelry or Small Tool Chest

Chest Drawers	Length	Height	Depth
Top Compartment	13"	2-3/8"	6-3/8"
1 Drawer	5-1/2"	1-3/4"	5-1/4"
2 Drawers	5-1/2"	3/4"	5-1/4"
1 Drawer	12-1/8"	3/4"	5-1/4"
1 Drawer	12-1/8"	2-1/8"	5-1/4"
Overall Chest Size	14" X 10-7/8"	X 7-1/4"	15 lbs

400-0150 Small Tool Chest



The Apprentice's Chest and Base*

Chest Drawers	Length	Height	Depth
Top Compartment	19"	3-1/4"	8-1/4"
3 Drawers	8-5/8"	1"	7-1/4"
1 Drawer	8-5/8"	2"	7-1/4"
1 Drawer	8-5/8"	3/4"	7-1/4"
1 Drawer	18-1/4"	3/4"	7-1/4"
1 Drawer	18-1/4"	1-3/4"	7-1/4"
Base Drawers			
2 Drawers	9-1/4"	1"	7-1/4"
2 Drawers	9-1/4"	1-1/4"	7-1/4"
1 Drawer	19-1/2"	3-1/2"	8-1/4"
Overall Chest Size	20" X 12-1/4"	X 9-1/2"	26 lbs
Overall Base Size	21-1/4" X 9-1/2"	X 10-1/4"	22 lbs

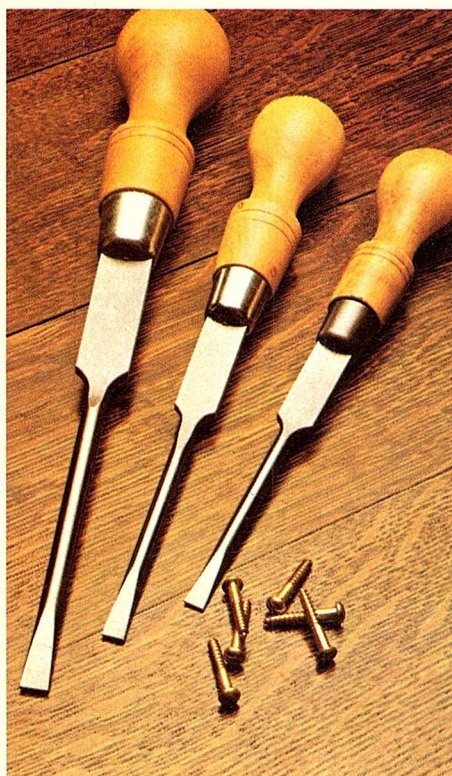
400-0010 Chest Only

400-0050 Base Only*

*The base is fully finished and can be used separately.



Cabinet Makers Screwdrivers



Screwdrivers, once known as Turn-screws in parts of England, seem to exist in a profusion of varieties: Cabinet, London, Scotch, Spindle-bladed, Gentlemen's and Scale-handled patterns; cranked, forked, short and screw-holder screwdrivers; and, of course, those that are named after the trade or profession that uses them, such as Undertaker's, Model-makers, Gunmakers, and Military screwdrivers. We haven't even scratched the surface.

The same home that counts one hammer may have as few as 10, and as many as 50, screwdrivers. This can be explained by the fact of their modest cost and casual regard. Most people own screwdrivers of the mechanics type, and no matter what the job at hand they reach for the closest driver, without any consideration for its intended use, and proceed to work. As often as not, the blade slides off the screw head and mars the workpiece, or the screw slot, or both. In some cases where the screw refuses to turn and accommodate the blade, the blade turns, much to the chagrin of the owner.

Were you to own a set of our Cabinet Pattern Screwdrivers, you would never again look down upon screwdrivers as lowly tools to be consigned to a kitchen

drawer, the trunk of your car, or a cluttered tool box in the cellar. Rather, you would proudly display them in your work shop and go out of you way to use them when the occasion arose.

They are beautiful, they are practical, they do the job right. These are the wood workers traditional drivers. The oval handle, of polished Beech or Boxwood, with its bulbous end is designed to provide maximum comfort and surface contact between hand and tool. The benefit is increased torque. The forged, chrome vanadium, cylindrical blade is ground flat where it enters the plated ferrule so that when even greater torque is required you can apply a wrench. The cross ground, flared tip is taper ground on both sides to insure accurately sized blades. The entire tool sparkles with pride. There are no finer screwdrivers made anywhere.

Beech Handle	Blade Length	Blade Tip Width	Boxwood Handle
102-0080	3"	7/32	102-0180
102-0090	4"	9/32	102-0190
102-0100	5"	5/16	102-0200
102-0110	6"	11/32	102-0210
102-0120	8"	13/32	102-0220
102-0130	10"	15/32	102-0230
102-0140	6 Piece set		102-0500

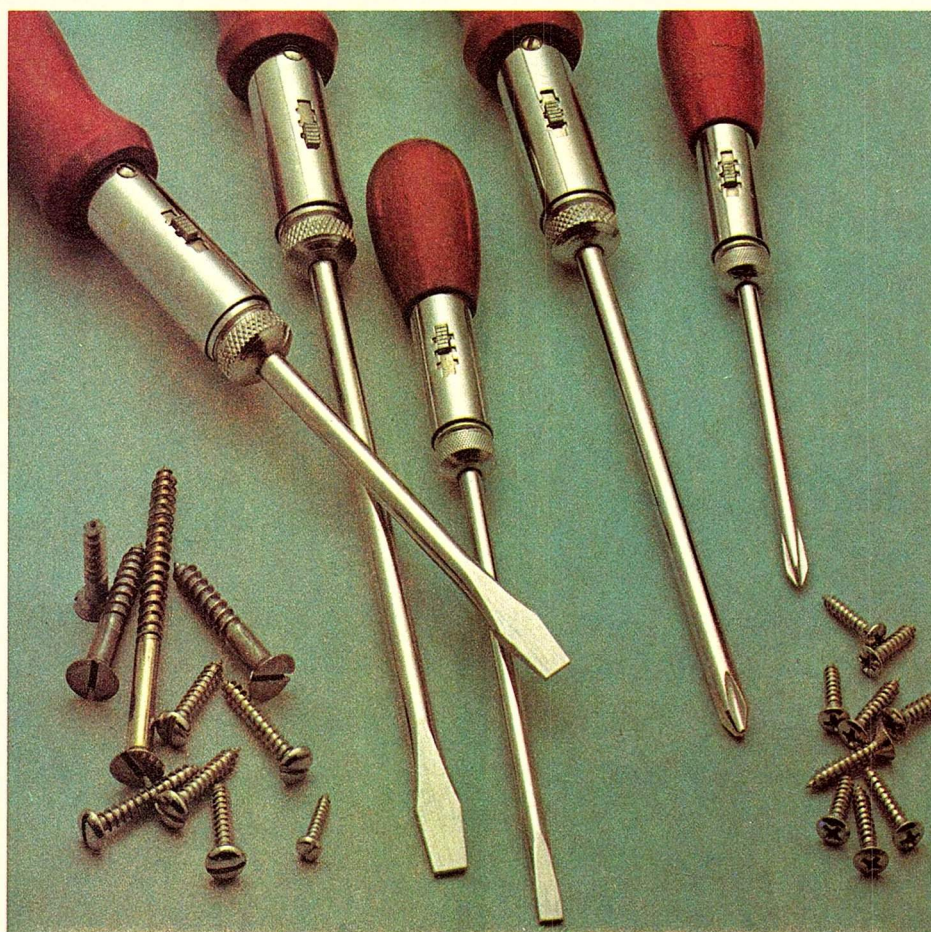


Screwdrivers that cry out for punishment

Given the grace and beauty of the Cabinet Pattern Screwdrivers, you may wonder why we sell these first cousins to wrecking bars. And that is exactly the reason. Like crow bars, they can take any abuse at all. The one piece forged blade and handle have smooth oval shaped hardwood grips rivetted to each side of the handle for comfort. These tools are intended for hearty work and can be hammered like cold chisels. Yet, for all their rough intentions, they have a certain charm. Still, they are the Beasts to our Cabinet Beauties.

	Blade Length	Screw Size
102-0340	4"	8
102-0350	6"	12
102-0360	8"	16
102-0370	10"	
102-0400	Set of 4	

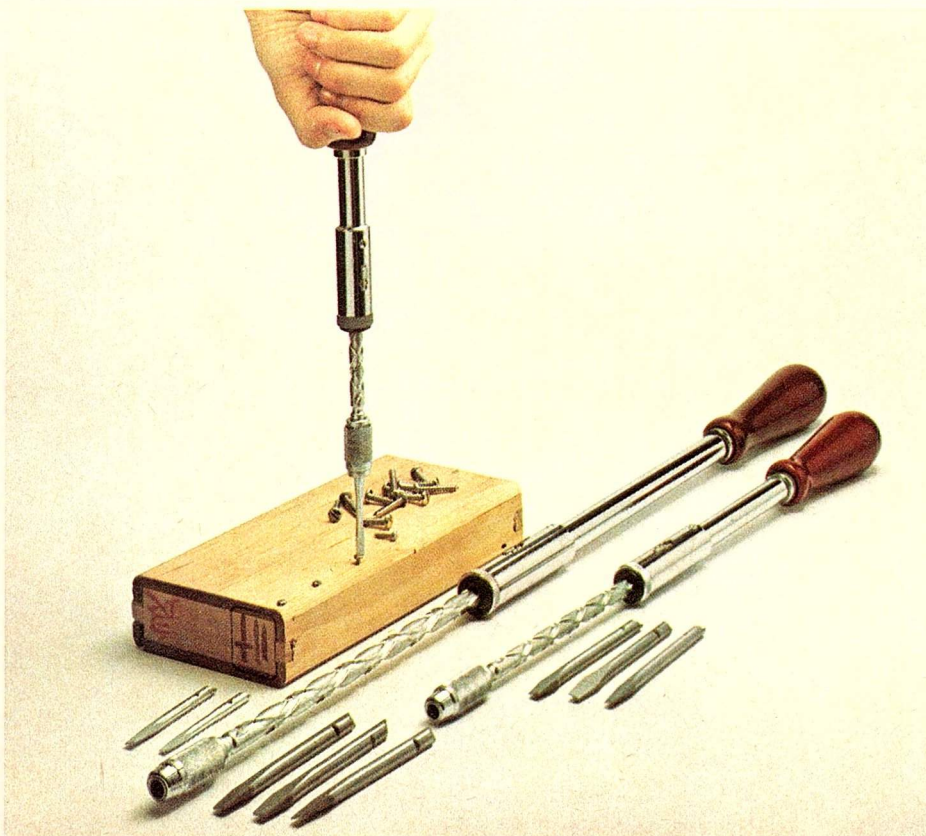
Ratchet Screwdrivers



Ratchet Screwdrivers

offer the advantage of one hand screw-driving without changing one's grip on the handle. A thumb slide offers neutral, forward, or reverse drives. A knurled finger grip is provided to make the first few turns of the blade with finger and thumb, the handle remaining still. These drivers have a comfortable hardwood handle. All exposed metal parts are fully plated. Five sizes are available including 2 crosspoint styles.

	Bit Size	Blade Length	Overall Length
102-0420	3/16"	4"	7-1/2"
102-0430	1/4"	4"	9"
102-0440	1/4"	6"	11"
102-0450	#1 Crosspoint	3"	6-1/2"
102-0460	#2 Crosspoint	5"	10"
102-0510	The set of 5 Ratchet Screwdrivers		



Spiral Ratchet Screwdrivers

are intended for use when a lot of screws have to be driven. The double spiral grooves on the stem produce a turning force at the tip when pressure is applied to the handle. When the pressure is released and the screw has been driven, the handle returns to its original position, thanks to its automatic spring return. A thumb slide offers neutral, forward, or reverse drives. A lock ring converts the spiral ratchet action to a standard screwdriver in either the extended or closed position.

Each model is supplied with three alloy steel blades. The wood handles are nicely lacquered. All exposed metal parts are fully plated.

Pilot holes are definitely necessary. Also, care must be taken to prevent the blade from sliding out of the screw slot and damaging the work.

	Length Extended	Length Closed	Blade Sizes
102-0490	28"	19-3/8"	1/4", 9/32", 5/16"
102-0470	20"	14-3/4"	7/32", 1/4", 9/32"
102-0480	14"	10-1/2"	5/32", 3/16", 7/32"

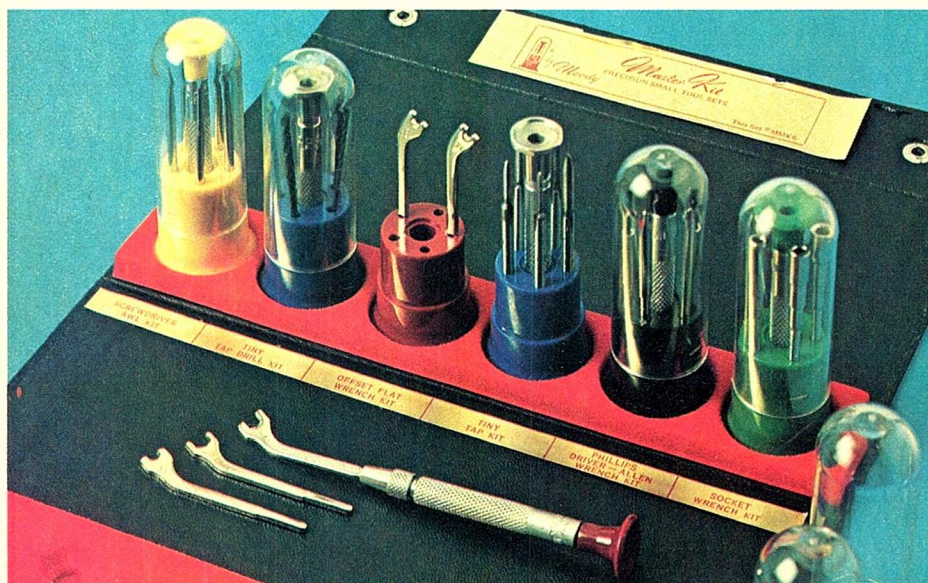
Miniature Tools



Fight Back! Don't let tiny screws and nuts bug you!

The Maxi Tool Kit contains 22 mini-tools for every mini-job. When the sewing machine doesn't because of a loosened screw, when your eyeglasses need tightening, even when small appliances and timepieces suffer from loose fasteners, the crisis passes swiftly when you have the right tools on hand. This kit contains a swivel-head handle and chuck, six screwdriver blades (.025", .040", .55", .070", .080", 1.00"), two Phillips blades (#0 and #1), three Allen Wrenches (.050", .062", .078"), five socket wrenches (5/64", 3/32", 7/64", 1/8", 5/32"), five open end wrenches (same sizes as socket wrenches) and an Awl.

102-0280 Maxi Tool Kit

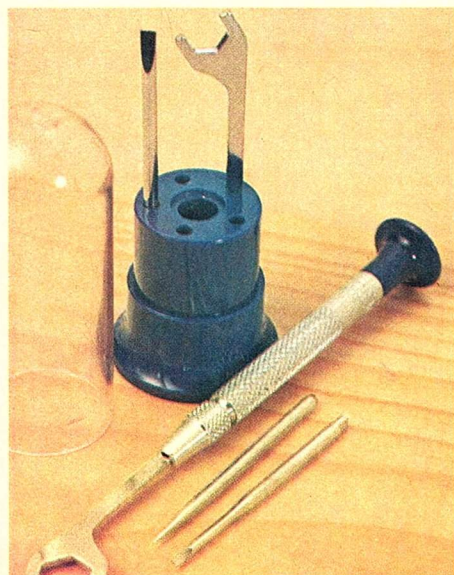


Not enough small tools? Our Master Tool Kit combines six kits

Do note the contents listed below.

Screwdriver and awl kit with .055", .070", .080", and .100" blades and an awl. Offset open-end wrench kit with 5/64", 3/32", 7/64", 1/8", and 5/32" socket wrenches. Phillips and Allen kit with Nos. 0 and 1 Phillips blades and .050", .062", and .078" Allen wrenches. Socket wrench kit with 5/64", 3/32", 7/64", 1/8", and 5/32" socket wrenches. Drill kit with 5/64", Nos. 53, 50, 47, and 43 drill bits. Tap kit with 0-80, 1-72, 2-56, 3-48, and 4-40 taps. Each kit comes with its own swivel head handle and all are packed together in a leatherette case.

102-0260 Master Tool Kit



For the Fisherman

A miniature kit with tools to fit most reels. Includes: .070" and .100" screwdriver blades, 1/4" and 5/16" open end wrenches, an awl and swivel head handle.

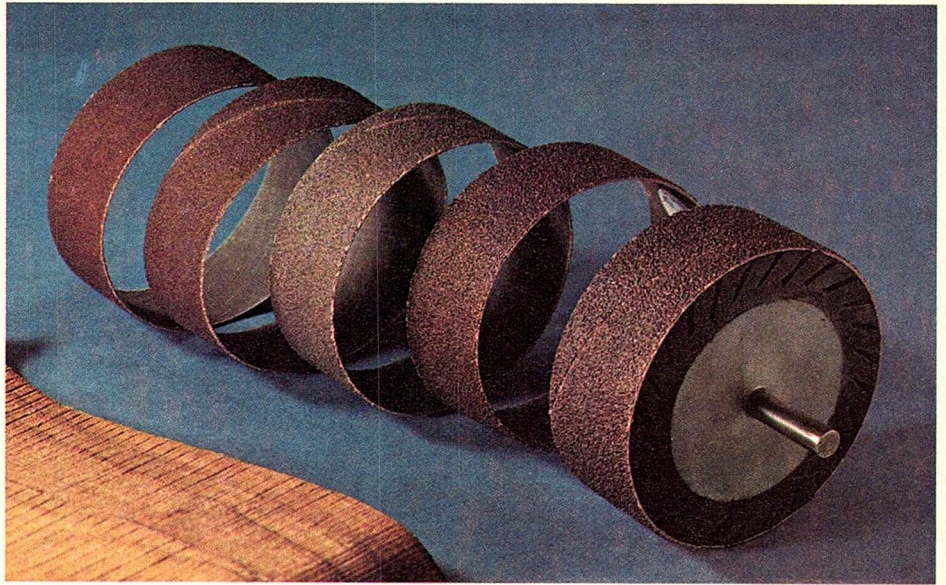
102-0240 Reel Repair Kit

Electric Drill Accessories

High Speed Balanced Drum Sander 4" Diameter X 1-1/2" width X 3/8" shank

A very high quality industrial product made from moulded virgin rubber. The slots, moulded in the rubber, expand during rotation to maintain firm contact with the abrasive sleeve at any speed.

- 200-1140 **Slotted 4" Sanding Drum Only**
- 500-0990 **Abrasive Sleeves-Pack of 5-100 Grit**
- 500-1000 **Abrasive Sleeves-Pack of 5-80 Grit**
- 500-1010 **Abrasive Sleeves-Pack of 5-60 Grit**
- 500-1020 **Abrasive Sleeves-Pack of 5-50 Grit**
- 500-1030 **Abrasive Sleeves-Pack of 5-40 Grit**
- 500-1170 **Abrasive Sleeves-Pack of 5-Asst. Grits**



Power Rasp and Bur Set

Three useful and popular shapes in both rasp and bur teeth for working either wood or metal. Very useful for fill-and-shape repair work and carving. 1/4" shanks. Supplied in a convenient storage case.

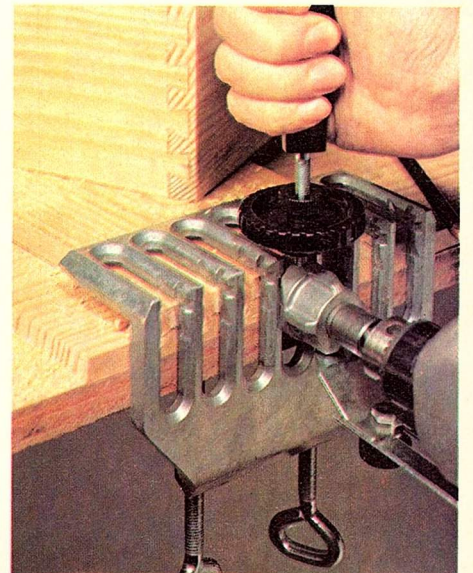
- 200-0350 **6 Piece Rasp and Bur Set**



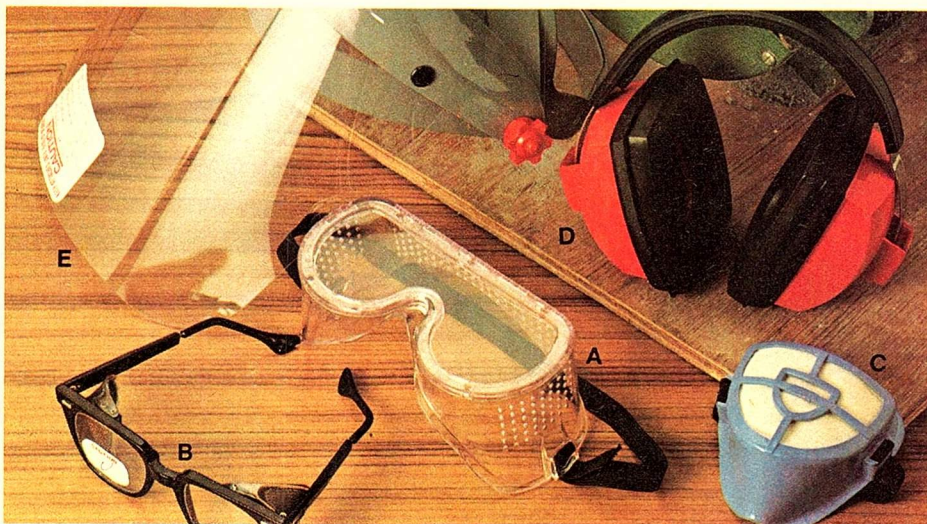
We probably couldn't sell this jig to a cabinetmaker...

But it could save you a lot of time and effort when you want to make more than a few dovetail or box joints. The results are decidedly professional. All you need is a drill operating at about 3000 RPM and a 3/8" chuck. Slower drill speeds will provide less satisfactory results in that the cuts will not be as fast and clean. The Dovetailer Jig is supplied complete with one dovetail bit. The box joint bit is available as an optional accessory. The high speed bits will work on maple and oak as well as on soft woods.

- 101-0300 **Dovetailer With Dovetail Bit**
- 101-0320 **Box Joint Bit**
- 101-0310 **Replacement Dovetail Bit**



Safety Equipment



Face Shield

Will fit head or hat sizes 6-5/8 to 7-7/8. The wrap around shield is plastic and replaceable. A foam brow band absorbs perspiration. This is not a substitute for glasses or goggles when grinding, wire brushing, drilling, or other similar operations are going on.

- E 103-0220 Face Shield**
- 103-0430 Face Shield Window Replacement**

Paint Spray and Pesticide Respirators

The replaceable cartridges and prefilters render the protection.

The paint spray respirators protects against organic vapors, paint, lacquer, and enamel mists and sprays.

The pesticide respirator protects against field level concentrations of fungicides, insecticides, repellents, herbicides, rodenticides, and seed protectants.

- F 103-0240 Paint Spray Respirator**
- 103-0440 Paint Spray Respirator Replacement Kit (4 cartridges, 8 prefilters, 2 retaining rings)**
- G 103-0230 Pesticide Respirator**
- 103-0300 Pesticide Respirator Replacement Kit (4 cartridges, 8 prefilters, 2 Louvre Covers)**



You can lead a horse to water, but...

For many years, eye and face shields sat and languished in retail stores across the country. There was a time when it was difficult to sell a retailer anything to do with eye protection, or any personal protective device. Now, everybody sells them. But how many tool users use them? It is really crazy not to! Many who didn't can't read this catalog...

Goggles

Soft, pliable frame that can be worn over your regular glasses. Air vents help to prevent fogging. The lenses are impact-resistant, optically correct, and replaceable.

- A 103-0200 Goggles**
- 103-0420 Replaceable lens**

Glasses

Feature adjustable temples and wire mesh side shields. The lenses are plastic and scratch resistant.

- B 103-0180 Safety Glasses**

Dust Mask

If you have never used these during a power sanding job, you will wonder what was wrong with you after you give them a try. Imagine! You don't fill up on the dust. You won't be spitting up, coughing up, or blowing out the particles and color of the material you sanded for the next two days. What's that worth?

The vinyl mask weighs only one ounce and is comfortable to wear. Easily replaced foam filters offer low breathing resistance.

- C 103-0210 Dust Mask**
- 103-0270 Dust Mask Replacement Filters, pack of 5**

Hearing Protectors

Just super for when the noise of the router saw or planer becomes unbearable. The headband rotates 360 degrees so that you can wear these over, under, or behind the head. Very lightweight. We can also think of other uses for these tuner-outers.

- D 103-0190 Hearing Protectors**



Leather Workshop Aprons

Save clothing and save changing clothing. Available in suede or calfskin. The four sewn pockets are brass riveted for added strength. Each apron measures about 19" wide and 26" long. The chest pockets provide for 5-1/2" square apron pockets. One size fits all.

- 800-0030 Beige Suede Apron**
- 800-0040 Rust Suede Apron**
- 800-0050 Russet Calfskin Apron**

Flexible Shaft System

A Flexible Shaft like no other

A very unique arrangement. Cafeteria style, you buy the shaft and select the hand piece or hand pieces that suit your requirements. There are three available.

The Carver This unique product converts the rotary motion of your power source (drill or bench motor) to a reciprocating action. With the 1/2" chisel blade included with the Carver, you can carve wood, using only light pressure, guiding the cut effortlessly. More pressure brings a deeper cut. Four additional tools are available as optional accessories.

The Angle Grinder is a ball and roller bearing, right angle hand piece fitted with a 2" X 1/8" (replaceable) resinoid dish shape grinding wheel. You can grind on the edge or the face of the wheel. An on-off collar switch is built into the hand piece to engage or disengage the gearing.

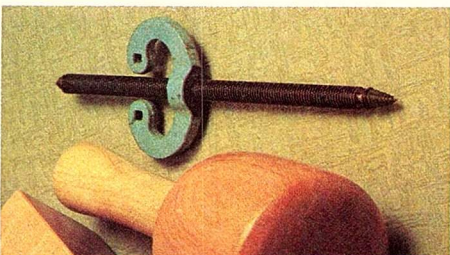
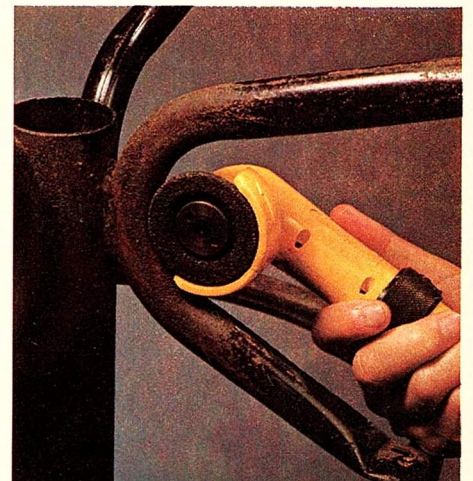
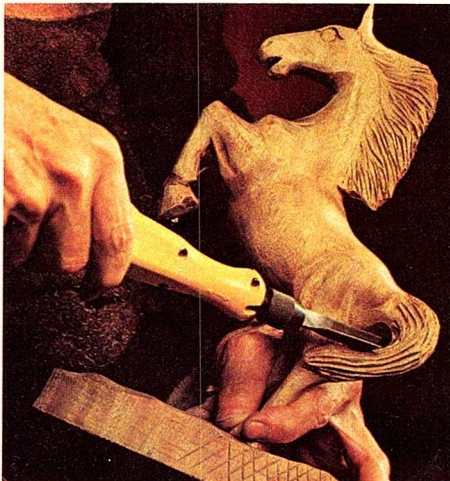
The Standard Hand Piece has a 3/8"-24 threaded shaft that will accept 1/4" or 3/8" drill chuck. (You can turn one off a spare portable drill or purchase one from us). The comfortable grip on all the hand pieces makes them very easy to use.

The Flexible Shaft is 60" long and so designed that it can be used only with the above described hand pieces which couple to the shaft with a snap-on action. Most shafts on the market are only 36" or 40" long. The extra two feet built into this shaft permit you to reach further into tight work areas.



- A 202-0010 60" Flexible Shaft
- B 202-0040 The Carver Hand Piece
- C 202-0030 The Angle Grinder
- D 202-0020 The Standard Hand Piece
- E 202-0050 1/2" Chisel Blade
- F 202-0060 5/16" Gouge Blade
- G 202-0080 5/8" Gouge Blade
- H 202-0070 3/8" Bent Gouge Blade
- I 202-0090 3/8" V-Parting Tool

- 202-0100 Set of 4 Gouges (0600-0090)
- 202-0130 Replacement Grinding Disc
- 202-0110 1/4" Jacobs Chuck and Key
- 202-0120 3/8" Jacobs Chuck and Key

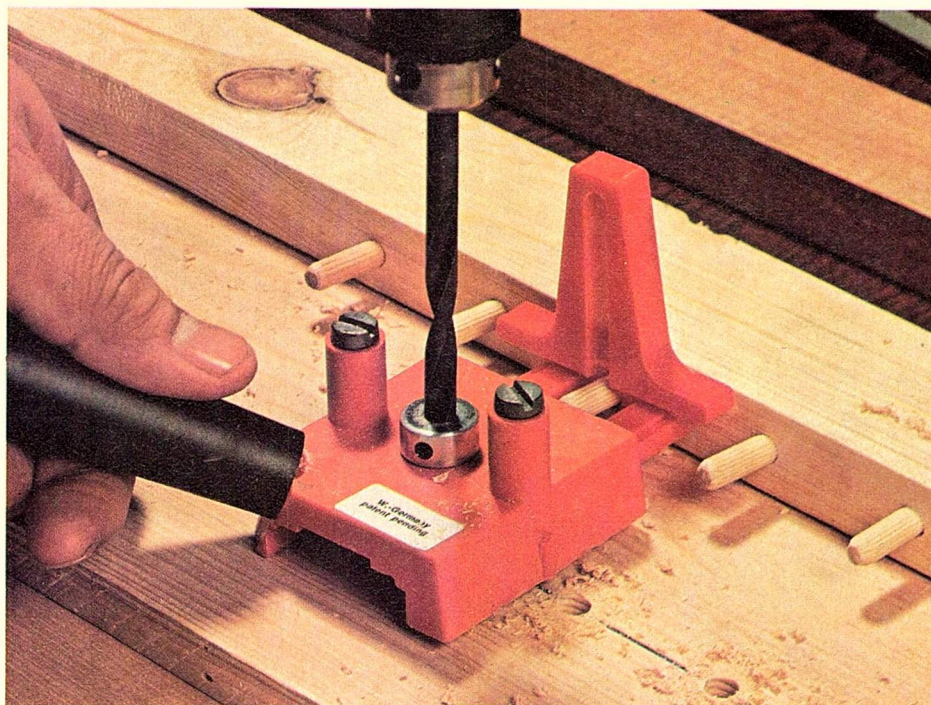


Woodcarvers, Attention!

Here is a bench screw that will hold your wood so that you can work from any angle. It goes through your work bench, screws into the base of the carving and is secured with the large wing nut provided. A good idea is to reinforce the hole in the bench with a piece of tubing.

300-0890 Woodcarvers Screw

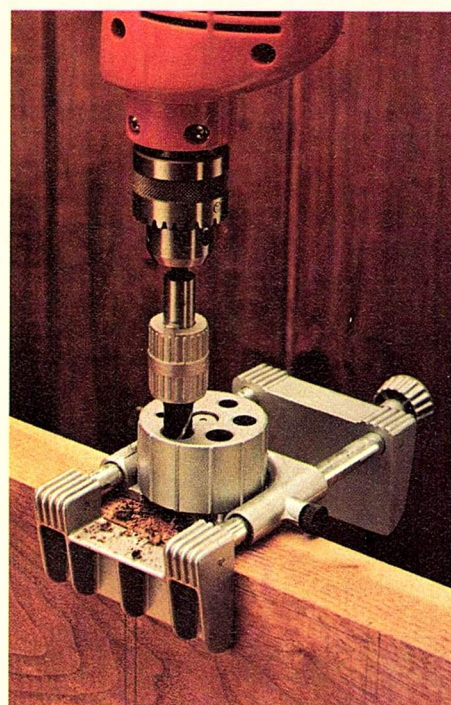
Dowelling



Ever since this invention, dowelling has become child's play

This jig not only helps you drill straight holes but, more importantly, it also makes critical hole alignment simple and error free. Further, you can do edge-to-end and edge-to-surface dowelling with it. It makes corner dowel joints or board-surface dowel joints. There is no other tool like it. In addition to the jig, you receive an appropriate twist drill, a metal drill depth-stop collar and a small quantity of fluted dowels in the kit.

- 101-0050 1/4" Dowel Magic
- 101-0060 5/16" Dowel Magic
- 101-0070 3/8" Dowel Magic



Looks like a kid's tank, but doesn't need batteries.

Perfect for dowelling extra large stock. Capacity: 4" A revolving turret with 6-guide holes (3/16", 1/4", 5/16", 3/8", 7/16", 1/2") sits on a movable carriage. Adjust the carriage to drill holes on or off center. The body is die cast and the turret nickel plated. A well-made tool. Comes complete with a depth stop and instructions.

101-0350 Turret Dowelling Jig



The simple jigs

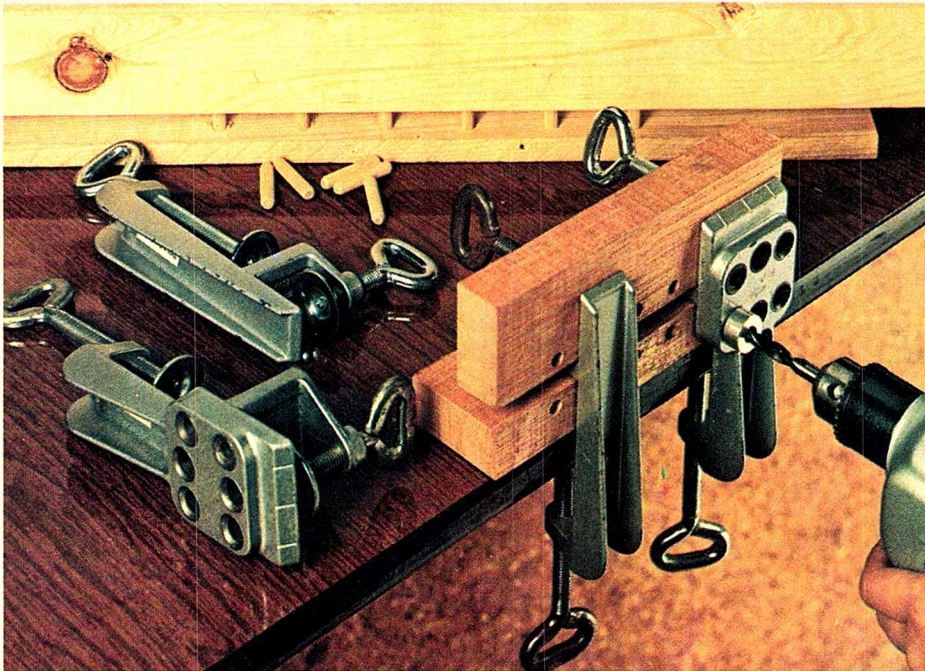
These dowelling jigs automatically center themselves as the clamp screws are tightened to hold the workpiece.

Two models are available: the standard, which offers five drill hole sizes (1/4", 5/16", 3/8", 7/16", 1/2") and the improved, which latter is similar to the standard model but comes with three removable screw-in bushings for extra hole patterns. The bushing sizes are 1/4", 5/16", 3/8". This will permit the user to drill two holes the same size parallel to one another for double dowel applica-

tions. This is on a 3/4" center to center space. The jig does not have to be moved to do this and is more accurate and convenient than other types of jigs. The bushings and center are of hardened drill steel and plated for rust protection. The 7/16" and 1/2" holes are permanently drilled in the center guide. Extra drill bushings are available.

- 101-0390 The Standard
- 101-0370 The Improved
- 101-0380 An extra set of drill bushings for the improved model

Dowelling



A unique system for dowelling long boards

Dowelling Jig Clamps

are designed to position your boards and facilitate critical hole alignment. One clamp has 2 sets of hardened steel drill guides with 1/4", 5/16" and 3/8" openings. You move this jig along the boards stopping wherever you wish to drill your dowel holes. Opposing holes are drilled one after the other. The smaller jig is really a positioning clamp.

101-0040 Dowelling Jig Clamps



For End-to-End and Edge-to-End Dowelling

Four different size kits are available. Each has a wood drill with brad point that eliminates "walking", a rubber drill depth guide, 4 dowel centers for accurate marking and a small quantity of fluted dowels plus complete instructions.

101-0080 1/4" Dowel Kit
101-0090 5/16" Dowel Kit
101-0100 3/8" Dowel Kit
101-0360 1/2" Dowel Kit

8-Piece Dowel Center Set

Two each of the four most popular sizes: 1/4", 5/16", 3/8", 1/2".

101-0290 8-Pc. Dowel Center Set

Hardwood Dowels, Plugs and Buttons by the Hundred

All made from selected kiln-dried birch.

The dowels are fluted to increase bonding strength and eliminate trapped air. The ends are chamfered for easy insertion.

The plugs and buttons are smooth sanded and tapered for easy insertion.

Buttons heads are about 1/8" larger than their tenons.

Fluted Dowels

101-0150 1/4" dia. X 1/4" long
101-0160 5/16" dia. X 1-1/2" long
101-0170 3/8" dia. X 1-1/2" long
101-0180 1/2" dia. X 1-1/2" long



Flat Head Tapered Screw Hole Plugs

101-0190 1/4" dia.
101-0200 5/16" dia.
101-0210 3/8" dia.
101-0220 1/2" dia.

Round Head Tapered Screw Hole Plugs

101-0250 1/4" dia.
101-0260 5/16" dia.

Screw Hole Buttons

101-0270 3/8" dia.
101-0280 1/2" dia.
101-0230 3/8" dia.
101-0240 1/2" dia.

Hammers & Mallets



Lignum Vitae Mallets at 76 Lbs. per cubic foot

Lignum Vitae, the densest of all commercial woods, is usually used in the making of bowling balls, pulley sheaves and mallet heads. Because of its weight to size ratio, a Lignum Vitae mallet is smaller than its beech-made counterpart and thus easier to control. It will also last longer and give better service. The round heads permit easy use no matter how you grasp the handle. These mallets are carved from one piece of solid Lignum Vitae.

- 105-0330 2-1/2" Dia. Mallet
- 105-0340 3" Dia. Mallet
- 105-0350 3-1/2" Dia. Mallet
- 105-0360 4" Dia. Mallet

A mallet that won't loose its head

A true joiner's mallet has features that make it a safe, powerful tool for the woodworker. The handle is wedge shaped as is the eye: swinging the mallet tightens the head on the handle. A very safe tool to use. The shape of the head is special, too. Unlike the round carvers mallet used by sculptors, the joiner's mallet has flat faces that are slightly angled to strike the work squarely. No self-respecting wood butcher should be without one.

- 105-0180 4" Joiner's Mallet
- 105-0190 4-1/2" Joiner's Mallet
- 105-0200 5" Joiner's Mallet

Pin Cross Pein Hammers

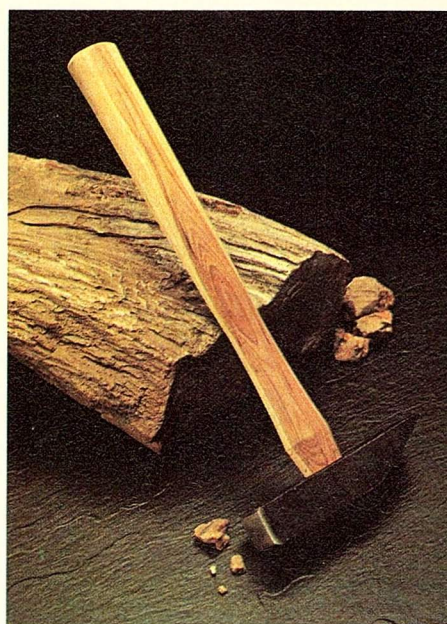
These are also known as telephone hammers because telephone installers use them to affix wire. Their balance and light weight make them ideal for driving small nails or tacks.

- 105-0210 2 oz. 11" Handle
- 105-0220 3-1/2 oz. 11" Handle

Magnetic Upholsterers' Hammer

Deluxe quality, forged from high grade steel with stove enamelled head. Each hammer fully magnetized and fitted with "keep".

- 105-0240 7 oz. head 12" ash handle



Geologists' Hammer

Another deluxe quality product. Polished head and chisel, stove enamelled body forged from a special steel appropriately hardened and tempered to withstand demanding work. Perfectly balanced to avoid fatigue and jar. Fitted with an American Hickory handle.

- 105-0230 16 oz. head



Hammers

If you're not pulling nails, why are you working with a 16 oz. claw hammer?

Knowledgeable craftsmen use joiners' hammers. Many authors recommend them for their balance and versatility. We do too. Joiners' Warrington Pattern hammers are available in head weights from 4 to 24 oz. However, we limit ourselves to the 16 oz. size. The tapered cross pein heads are used to drive brads or for riveting. We carry two qualities.

Both are perfectly balanced—no insignificant claim. Both are accurately forged, hardened and tempered with the most modern equipment to eliminate cracking and chipping. Both have ground and polished striking faces. The standard quality has an English ash handle. Our deluxe quality has several additional features. The steel is the very best carbon-manganese. The handle is American Hickory and the process of treating the handles by a special preshrinking and moisture stabilizing process to prevent them from loosening in use is unique. All moisture is eliminated from the eye end of the handle. Then, a special fluid replaces the lost moisture and the handle is sealed against further moisture absorption. The handle is then hydraulically fitted to the head and wedged. There is no better hammer made anywhere.



Deluxe Quality	Head Weight	Handle Length	Standard Quality
105-0370	4 oz.	10-1/2"	101-0160
105-0380	6 oz.	10-1/2"	105-0010
105-0390	8 oz.	11"	105-0020
105-0400	10 oz.	11-1/2"	105-0030
105-0420	12 oz.	12"	105-0130
105-0430	16 oz.	14"	105-0150

Our respect for the very high quality served by the manufacturer of our deluxe Joiners' hammers has prompted us to offer a larger range of his production.

Silversmith and Art Metal Hammers

Creasing Hammer

Deluxe quality. Used to crease metal before folding or bending. 10-1/2" Hickory Handle.

A 105-0260 4 oz. head

Planishing Hammer

Deluxe quality, with two flat faces, one round, the other square. Used to flatten thin metal. 10" Hickory Handle.

B 105-0250 5 oz. head

Jewelers' Ball Pein Hammer

Lightweight, nicely balanced. Available in two handle lengths, standard and long. Incredibly useful.

**C 105-0290 1 oz. head
5-1/4" Hickory Handle**
**105-0300 1 oz. head
8-3/4" Hickory Handle**

Collet Hammer

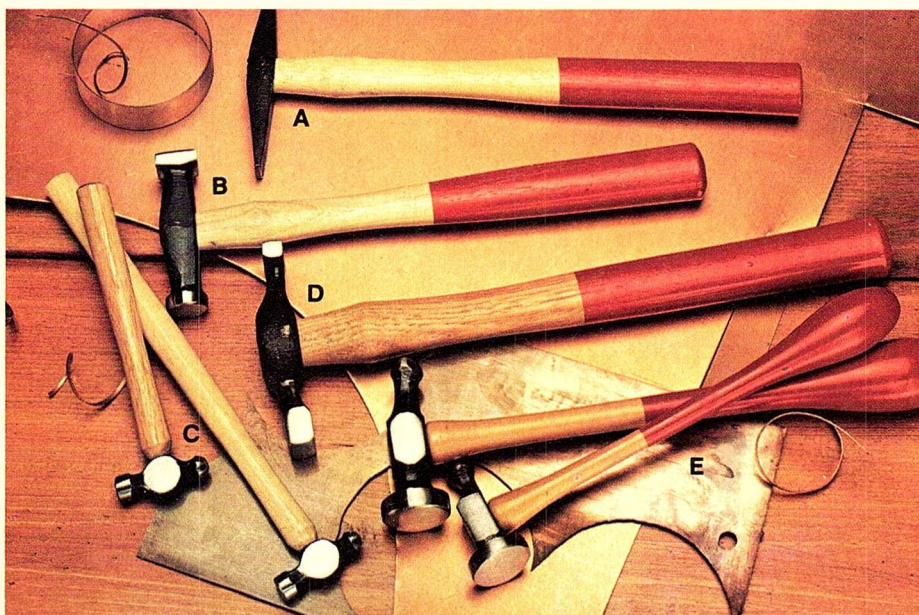
Deluxe quality. Used by jewelers for setting stones. 11" Hickory Handle.

D 105-0280 8 oz. head

Repousse Hammers

Deluxe quality with very elegant, balanced Lancewood handles. Used for ornamental metal work, raised or beaten into relief by hammering from the reverse side. Lancewood, incidentally, is a tough elastic wood grown chiefly in the West Indies.

E 105-0310 4 oz. head with 9" handle
105-0320 6 oz. head with 10-1/2" handle



Swiss Army Knives

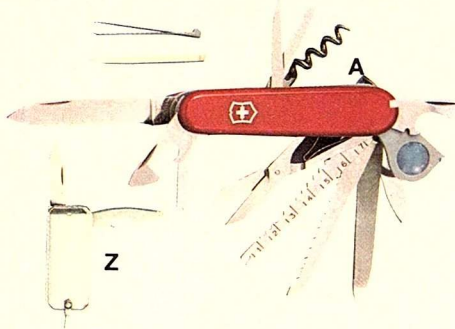
Original Swiss Army Knives

An extraordinary collection of the finest pocket knives available. Made in Switzerland by Victorinox since 1891, these are the knives frequently copied but never equaled.

Inasmuch as there just isn't space available to show each blade of each knife, we have below listed all the possible blades and have indicated, in the knife copy, which blades attend which knives.

1. Toothpick
2. Tweezer
3. Large Blade
4. Reamer
5. Magnetic Pickup
6. Corkscrew
7. Small Screwdriver, Can Opener
8. Phillips Screwdriver, Can Key Opener
9. Scissors
10. Inch/Metric Rule, Fish Scaler, Hook Disgorger
11. Wood Rope Saw
12. Metal Saw File
13. Small Blade
14. Magnifier
15. Large Screwdriver, Bottle Cap Lifter, Wire Stripper

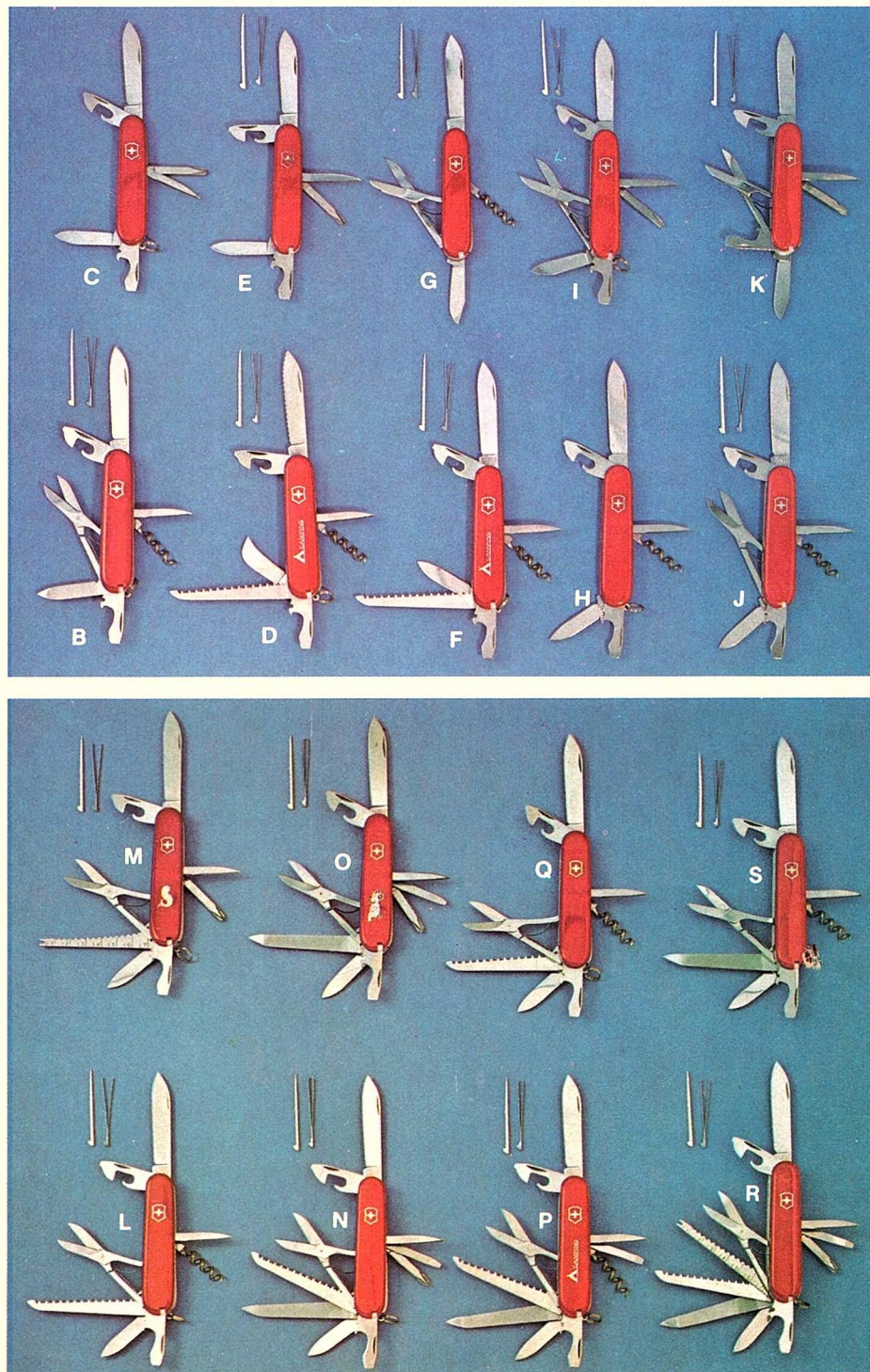
- | | | |
|---|----------|---|
| A | 700-0660 | The Champion
All Blades—3-1/2"
handle |
| B | 700-0670 | The Climber
Blades 1, 2, 3, 4, 6, 7, 9, 13,
15, Key Ring, 3-1/2"
handle |
| C | 700-0680 | The New Tinker
Blades—3, 4, 7, 8, 13,
15, 3-1/2" handle |
| D | 700-0690 | The Camper with
hook blade
Blades—1, 2, 3, 4, 6, 7,
11, 13, Key Ring, 3-1/2"
handle |
| E | 700-0700 | The New Tinker
Blades—1, 2, 3, 4, 7, 8,
13, 15, Key Ring, 3-1/2"
handle |
| F | 700-0710 | The Camper
Blades—1, 2, 3, 4, 6, 7,
11, 13, Key Ring, 3-1/2"
handle |
| G | 700-0720 | The Golfer
Blades—1, 2, 3, 6, 9, 13,
3-1/2" handle |
| H | 700-0730 | The Standard
Blades—3, 4, 6, 7, 13,
15, 3-1/2" handle |
| I | 700-0740 | The Super Tinker
Blades—1, 2, 3, 4, 7, 8,
9, 13, 15, 3-1/2" handle |
| J | 700-0750 | The Backpacker
Blades—1, 2, 3, 4, 6, 9,
13, 15, 3-1/2" handle |
| K | 700-0760 | The Super Tinker
Blades—Same as I
above |
| L | 700-0770 | The Angler
Blades—1, 2, 3, 4, 6, 7,
9, 10, 13, 15, Key Ring,
3-1/2" handle |



The most useful 1-1/2 ounces in your pocket or purse

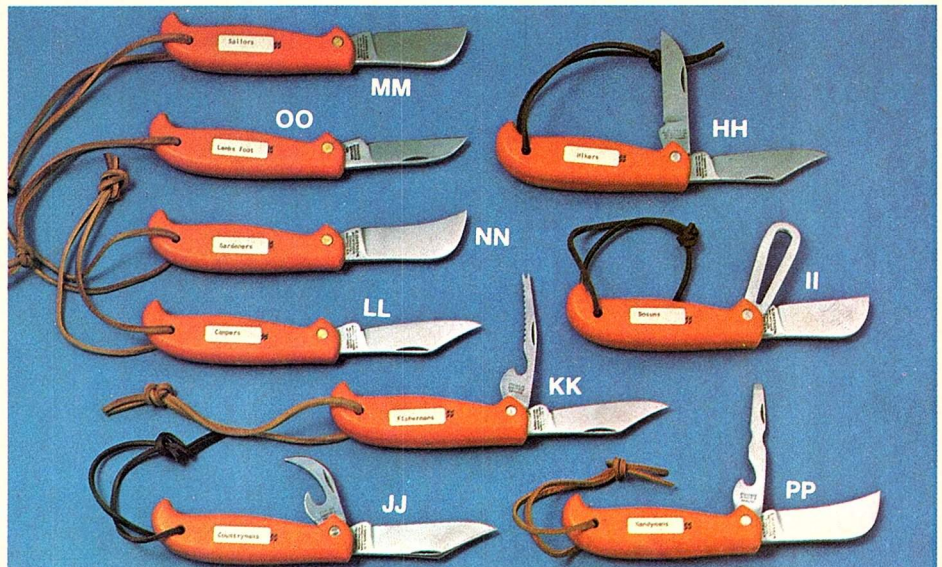
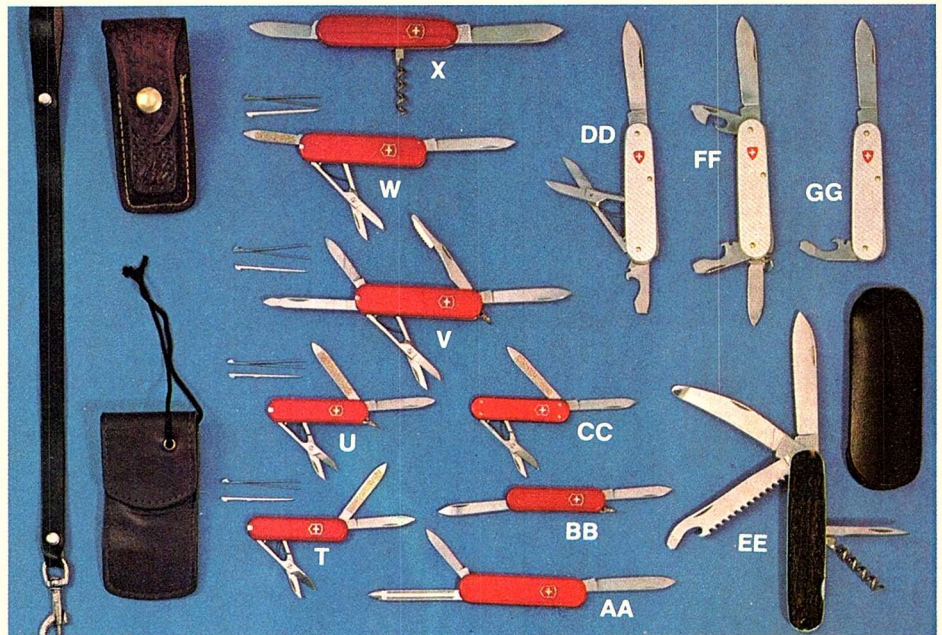
Stainless, hot forged, razor sharp blade and combined bottle opener screwdriver tuck neatly into the polished stainless steel case. The blades are 1" long and the case measures 7/8 X 1-3/4 X 1/4" thick. Perfect for key ring or chain.

Z 700-0630 Key Chain Knife



Pocket Knives

- M 700-0780 The Fisherman
Blades—Same as L except 8 instead of 6
- N 700-0790 The Ranger
Blades—1, 2, 3, 4, 7, 8, 9, 12, 13, 15, Key Ring, 3-1/2" handle
- O 700-0800 The Grand Prix
Blades—1, 2, 3, 4, 7, 8, 9, 12, 13, 15, 3-1/2" handle
- P 700-0810 The Ranger with corkscrew
Blades—1, 2, 3, 4, 6, 7, 9, 12, 13, 15, Key Ring, 3-1/2" handle
- Q 700-0820 The Huntsman
Blades—1, 2, 3, 4, 6, 7, 9, 11, 12, 13, 15, Key Ring, 3-1/2" handle
- R 700-0830 The Craftsman
Blades—1, 2, 3, 4, 7, 8, 9, 11, 13, 15, Key Ring 3-1/2" handle
- S 700-0840 The Mountaineer
Blades—1, 2, 3, 4, 6, 7, 9, 12, 13, 15, Key Ring, 3-1/2" handle
- T 700-0850 The Bijou
Blades—1, 2, 9, 12, 13, 2-1/4" handle
- U 700-0860 The Classic
Blades—1, 2, 9, 12, 13, Key Ring, 2-1/4" handle
- V 700-0870 The Executive
Blades—1, 2, 3, 9, 12, 13, Peeler, Key Ring, 3" handle
- W 700-0880 The Ambassador
Blades—1, 2, 9, 12, 13, 3" handle
- X 700-0890 The Waiter
Blades—3, 6, 13, Key Ring, 2-1/2" handle
- AA 700-0900 The Cavalier
Blades—1, 2, 3, 12, 13, 3" handle
- BB 700-0910 The Escort
Blades—3, 12, 3" handle
- CC 700-0920 The Companion
Blades—9, 12, 13, 2-1/4" handle
- DD 700-0930 The Windsor
Blades—3, 9, 15, 3" handle
- EE 700-0940 The Stag Hunter
Blades—As shown, 3-1/2" handle
- FF 700-0950 The Cadet
Blades—3, 7, 13, 15, 3" handle
- GG 700-0960 The Utility
Blades—3, 15, 3" handle



oz. for some, 3-1/2 oz. for others) their comfortable ABS plastic handles are sized for work. The bright orange color and the leather thong handle strap combine to help prevent their loss.

- HH 700-0530 Hikers' Knife
3-1/8" clip and 2-3/4" lambsfoot blades. 3-1/2 oz.
- II 700-0540 Bosuns' Knife
Heavy duty 2-1/8" shackle key and 2-3/4" specially styled blade. 3-1/2 oz.
- JJ 700-0550 Countryman's Knife
3-1/8" clip blade and 1-3/4" bottle and can opener. 3-1/2 oz.
- KK 700-0560 Fisherman's Knife
3-1/8" clip blade and same size combination disgorging, de-scaler, and bottle opener. 3-1/2 oz.

- LL 700-0570 Camper's Knife
3-1/8" clip blade. 2-1/2 oz.
- MM 700-0580 Sailor's Knife
2-3/4" blade and dinghy shackle key in handle. 2-1/2 oz.
- NN 700-0590 Gardener's Knife
3" curved blade. 2-1/2 oz.
- OO 700-0600 Lambsfoot Knife
2-3/4" blade for general purpose use. 2-1/2 oz.
- PP 700-0610 Handyman's Knife
3" curved general purpose blade and 3-3/4" combined screwdriver, wire stripper and bottle opener. 3-1/2 oz.

300 Year Old Cutters Go Modern

These award winning, razor sharp, stainless steel pocket knives are unique. They were not designed to get lost in pocket or purse. Although they weigh little, (2-1/2

Magnifiers & Mini Torches



Magnifying "Glass"

Newly designed illuminated magnifying lenses. The optical quality acrylic lenses are fitted to smart looking ABS plastic bodies. Ideal for reading maps and telephone directories, particularly in dark areas. Very reasonably priced. Batteries not included.

	Lens Diameter	Overall Length	Magnification
800-0290	1-1/4" square	4-3/4"	2x
800-0300	1-5/8" square	5-3/4"	3x
800-0310	2-1/2" square	8-1/2"	2x & 4x

Also available in round shape without illumination. These have combination magnifications in each lens.

800-0320	2"	6"	2x & 5x
800-0330	3"	7-1/4"	2x & 4x

Very useful pocket sliding magnifier without illumination Weighs less than 1-1/2 oz.

800-0340	1-1/4" X 2-1/2" lens	2x magnification
	Pocket Magnifier	



Adjustable focus 8 power magnifier. Just super for examining stamps, coins, photographs and small objects. 1" round lens. Unit is 1-3/4" high X 1-1/2" wide.

800-0350 8x Magnifier

Tele-Micro Scope. A combination telescope and microscope. 6" long X 5/16" wide. High magnification.

800-0360 Tele-Micro Scope

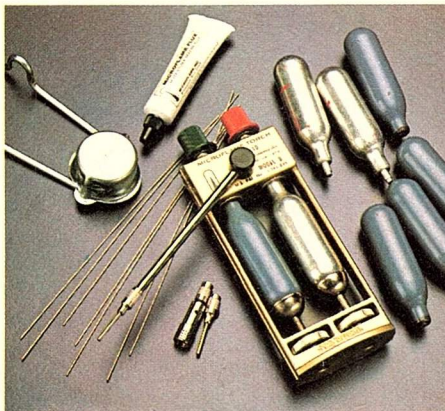
If you need 5000° F don't bother going to the thermostat

The Microflame gas welding torch, a brazing and soldering tool, develops a 5000° F (2760° C) pin point flame using a mixture of Micronox™ and Butane gases in small, disposable cylinders. You get instantaneous and precise heat where you need it.

The actual torch is about the size of a package of cigarettes.

The 30-piece kit contains the following: 1 Microflame Torch, 6 Micronox™ cylinders, 3 Butane cylinders, 12 Brazing rods, 1 Tube of Flux, 2 Flame tips, 1 Butane tip, 1 Spark lighter, 2 Gaskets, 1 Storage case and complete instructions

800-0160	30-Piece Torch Kit
800-0130	Extra Micronox™ Cylinder
800-0140	Extra Butane Cylinder
800-0150	Silver Brazing Rods



Mini-Torch

Adjustable flame has a 2254° F capacity which is ideal for precision soldering in silver, tin, gold. Also, very suitable for glass modelling and jewelry making.

Can be hand held or propped on its own folding stand. One filling will last about an hour. A favorite with dentists and jewelers.

800-0060 Mini-Torch with 1 can Butane
800-0070 Butane Refill

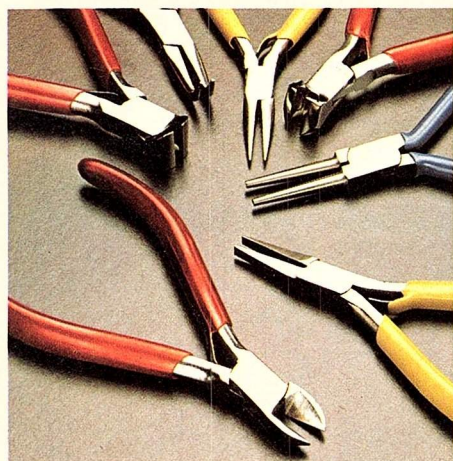




Jewelers Anvil

For miniature shaping, forming, flattening, straightening and bending. Forged and tempered steel head. Cast iron 2-3/4" base. Work surface 7/8" X 4-1/2"

103-0340 Jewelers Anvil

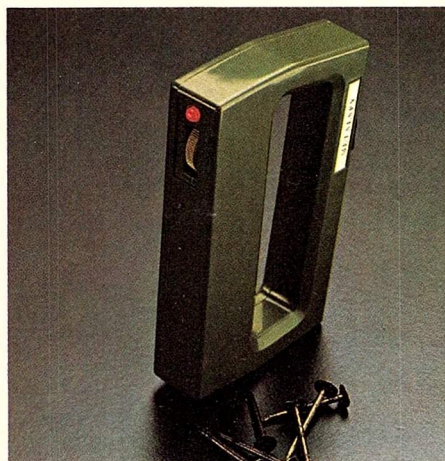


Your Dentist and Jeweler know. Do you?

Box Joint Pliers

work better, last longer, and stay in alignment. These beautiful electronic or jewelers mini-pliers all have box joints, polished heads, cushioned handles and a self-opening feature. They are all 4-1/2" (115 mm) long. The jaws are precision ground. These are professional tools not to be compared with so called hardware quality.

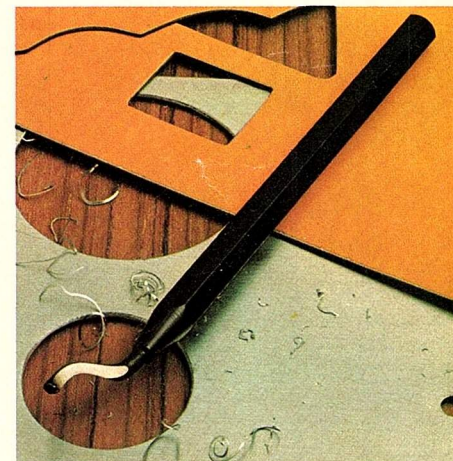
- 106-0960 Flat Nose Plier
- 106-0970 Short Round Nose Plier
- 106-0980 Short Chain Nose Plier
- 106-0990 End Cutting Plier
- 106-1000 End Cutting Plier—Angled Nippers
- 106-1010 Diagonal Cutting Plier
- 106-1020 Diagonal Cutting Plier—extra small head
- 106-1030 Diagonal Cutting Plier—wire holding feature
- 106-1040 Bent Chain Nose Plier



A sure way to find secret studs: spy them out

You've probably tried all the methods for locating studs: magnets; measuring; tapping. They all work, sometimes; but you always seem to miss when it is really important. The Metalspy never misses. Actually it is a miniature metal detector that can find nails, pipes, wires, or any hidden metal. It's powered by a 9 volt battery. Be sure to take it with you when logging. A hidden nail can ruin a sharp saw chain and cause injury. The sensitivity is adjustable. Complete instructions are included.

103-0410 Metalspy



A flick of your wrist and the burr is gone

This simple to use inexpensive tool will take the place of tens of dollars of expensive reamers for deburring pipe. The floating 62 Rockwell C hardened steel blade runs around the interior of any size pipe and quickly removes the rough edges, leftover cutting, or threading. It works equally as well on straight edges. Useful on steel, iron, aluminum, copper, brass, and other metals, wood, plastic, and plastic laminates.

109-0100 Deburrer

Books

Dictionary of Tools R. A. Salaman

Used as a basis for much of the historical material presented in this catalogue, this book lists hundreds of tools in use in the woodworking trades between 1700 and 1970. The tools of over seventy different trades are described.

600-0380

Antique Woodworking Tools Michael Dunbar

Not content to merely describe tools, Mr. Dunbar relates their form and function to the craftsmen that used them. Craftsmen that worked in a time when attention to detail was the rule rather than the exception. This book describes how to purchase and restore these tools for every day use in your shop.

600-0110

Tools and How to Use Them Albert Jackson & David Day

An illustrated encyclopedia of hand and power tools from the ordinary to the odd; their history, what they are used for, how to operate and maintain them. Amply illustrated with very clear line drawings.

600-0100

Guide to Sharpening Harry Walton

As we mentioned in the sharpening tool section, dull tools can be downright dangerous. In this book Mr. Walton, Home Workshop Editor for Popular Science Magazine, clears away all the mystery about sharpening. Learn to keep all your workshop tools in ready to use, razor sharp condition.

600-0280

Frame It Lista Duren

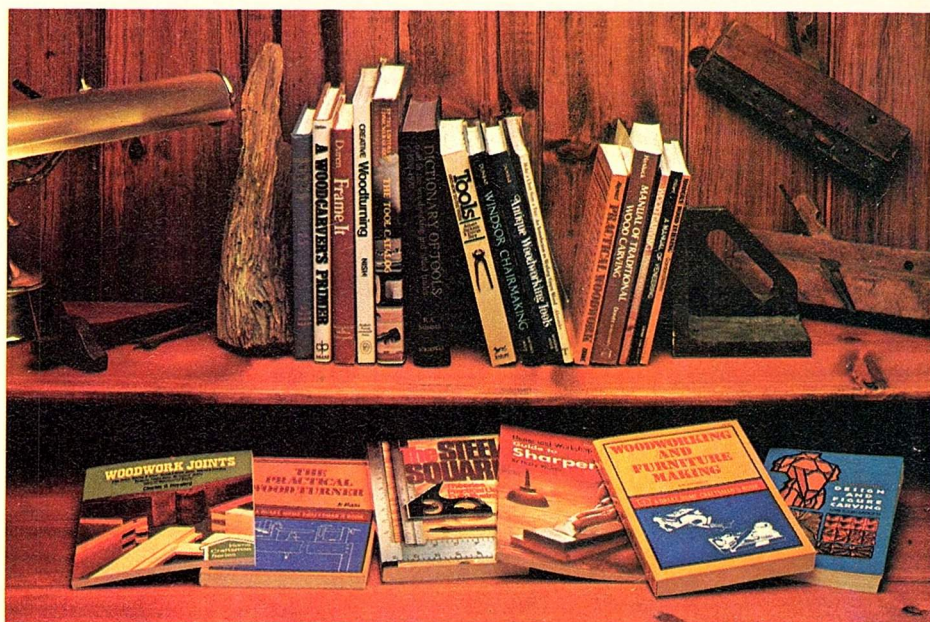
The cost of a frame, when purchased and installed through a framing shop, can easily far exceed the cost of the art work that goes into it. Avoid this needless expense. Learn how, with a few simple tools, you can make professional quality frames.

600-0340

Windsor Chairmaking Michael Dunbar

When properly made, a Windsor chair is strong, lightweight and attractive. From his shop at The Strawberry Banke museum in Portsmouth NH, Mr. Dunbar shows how this chair is made and why it was a favorite in colonial America.

600-0120



Make a Chair from a Tree John D. Alexander Jr.

Just after a tree is felled the wood is easiest to work. Mr. Alexander shows how this green wood can be split and shaped right from the tree to be formed into a beautiful and functional piece of furniture.

600-0040

Old Ways of Working Wood Alex W. Bealer

Have you ever wondered how woodworking was done before the introduction of power tools? Likely slower, but with much more care. A better product was the usual result. This book shows how they did it in "the good old days."

600-0350

The Encyclopedia of Furniture Making

This book covers every aspect of fine furniture making from workshop geometry to hand and machine techniques. Kept close to the workbench of many cabinetmakers we know. It should be close to yours.

600-0200

Repairing and Restoring Antique Furniture

Six basic steps in the restoration of antique furniture are covered in this book: Dismantling, cleaning joints, restoring components, gluing up, levelling, and polishing. An antiquarians handbook.

600-0390

Woodworking and Furniture Making G. W. Endacott

Basic tools and techniques for home woodworking. Illustrated with clear line drawings and featuring twelve designs you can use to test your wood working skill.

600-0270

Practical Woodwork Charles Hayward

Author of many valuable woodworking books, Mr. Hayward describes the basic techniques used in building fine furniture by hand.

600-0330

Woodwork Joints Charles H. Hayward

This book should answer nearly all of your questions on which joint should be used and where. Dozens of complex and simple joints are described, along with their applications and how to make them. A must have for your library.

600-0230

The Practical Wood Turner F. Pain

Mr. Pain, master English turner, states his objective on the very first page: "My aim is to show you how to cut wood as it prefers to be cut." And so he does. Many of the basic techniques of wood turning are covered in this book.

600-0180

Modern Wood Turning Gordon Stokes

This book offers expert instruction in all aspects of the wood turning craft. It is sure to be appreciated by beginning and advanced turners alike.

600-0260



Creative Wood Turning **Dale L. Nish**

The unique feature of this book is its large and clear illustrations, many in color. Combined with a well written concise text, you will find that this is a book to be propped up near the lathe for reference.

600-0370

Woodcarving **William Wheeler &** **Charles H. Hayward**

This is the basic manual for wood carvers covering tool selection and maintenance and the basic cuts for various kinds of wood carving.

600-0430

A Wood Carver's Primer **John Upton**

Recognizing that there is a distinct difference between the beginning and experienced carver, Mr. Upton addresses this book to the former. Starting with the basics of carving he proceeds through the book explaining the hows and whys that are second nature to the master wood carver.

600-0220

Design and Figure Carving **E. J. Tangerman**

This book is graded from very simple exercises to the more complex, and is arranged according to the tools used to obtain the desired effects. An incredible variety of design ideas are presented for the reader to use or adapt to his own purposes.

600-0140

The Victorian Cabinet-Makers **Assistant** **Blackie and Son**

If you were to enter a typical cabinet-maker's shop during the Victorian era, you would probably find a well-thumbed copy of this book beside the workbench. It was the most successful copybook of its time.

600-0320

Construction of American Furniture **Treasures** **Lester Margon**

Showing not only measured drawings but also completed information on the construction of 38 pieces of furniture, this is an invaluable book to use for reference or as a basis for your next project.

600-0300

The American Shakers and Their **Furniture** **John G. Shea**

This informative book shows how the Shaker way of life translated into furniture design and construction. The last section includes measured drawings of Shaker museum pieces.

600-0400

How To Build Shaker Furniture **Thos. Moser**

Combining the designs and techniques of Shaker craftsmen and a few modern devices, this book will show you how to build furniture that is functional, beautiful and timeless.

600-0420

A Manual of Veneering **Paul Villiard**

Veneering is the art of placing a thin sheet of expensive wood on a less costly base to produce a beautiful piece of furniture. Open yourself up to the creative possibilities of this craft. This book will show you how to build, at reasonable cost the equipment needed to do veneering in your own shop.

600-0410

Wood Finishing and Refinishing **S. W. Gibbia**

For many years a teacher of wood finishing in New York City, Mr. Gibbia is uniquely qualified to share his knowledge with you. Preparation, materials, techniques and maintenance of the finished piece are amply covered.

600-0160

A Cabinetmakers Notebook **James Krenov**

600-0150

The Fine Art of Cabinetmaking **James Krenov**

600-0170

It is not often that a master cabinetmaker shares his feelings about his work. Rarer still is one that sets pen to paper, leaving a written account of his philosophy of woodworking. James Krenov is one of those rare few. In these two books he tells how he came to be the kind of craftsman he is. The first book **A Cabinetmakers Notebook**, tells the why of his work, the philosophy and feeling behind the beautiful furniture he produces. The second, **The Fine Art of Cabinetmaking** delves into the how of his art. The selection of tools and materials and the "fine tuning" of both to obtain the finished product.

Fine Woodworking Magazine

Thought by many to be the greatest aid to woodworkers in many years. Published every two months each issue contains a wealth of information—valuable to all woodworkers. We carry the latest issue and all back issues in stock at all times. Please specify which issue(s) you would like.

600-0070

Fine Woodworking Techniques

Some of the best and most informative articles taken from the first seven issues of Fine Woodworking magazine.

600-0050

THE FINE TOOL SHOP

Carriage Hill
1200 E. Post Road
Westport, CT 06880



They look so real, you'll want to feed them.

These magnificent birds were hand carved and hand painted in the Far East. When we visited the studio, we were overwhelmed by the delicacy and beauty of the artists work. As we watched, deft hands with simple carving tools quickly gave form to raw blocks of wood. When we returned several days later, the birds that we had watched were finished and being prepared for painting. As the colors were applied, it seemed as if the birds would fly away. Maybe they have...

Were these beautiful carvings made in Europe or the U.S., the prices would be triple or more.

- 800-0230 Rainbow Lorikeet
4-1/2" high, 11" long
800-0240 Blue Jay
7" high, 11-1/2" long
800-0250 Pair of Painted Firetails
(male and female)
(A Limited Edition)
3-1/2" high, 5" long

- 800-0260 Little Ringed Plover
5" high, 6-1/2" long
800-0270 Bald Eagle
8-1/2" high, 6-1/2" long
800-0280 Pair of Red Faced Warblers
(male and female)
(A Limited Edition)
Male: 4" high, 7" long
Female: 6" high, 6-1/2" long